



NAVY TRAINING SYSTEM PLAN

FOR THE

MSU 200NAV

AIR START UNIT

N78-NTSP-A-50-0123/A

MARCH 2003

MSU 200NAV AIR START UNIT

EXECUTIVE SUMMARY

This Navy Training System Plan has been developed to identify the manpower, personnel, and training requirements to support the MSU 200NAV Air Start Unit. The MSU 200NAV is a Commercial Operations and Support Savings Initiative program in the System Development and Demonstration Phase of the Defense Acquisition System. The MSU 200NAV is currently undergoing Technical Evaluation and Supportability Evaluation for use in the United States Navy and United States Marine Corps. This testing is planned to be completed in November 2002.

The MSU 200NAV will provide a source of compressed air primarily to power aircraft air turbine starters for aircraft engine starting. It will also be used to accomplish other aircraft maintenance and servicing functions, such as engine motoring, powering environmental control systems, and testing Ram Air Turbines. It will replace all Gas Turbine Compressor Air Start Units currently in use at Navy and Marine Corps activities beginning with the Gas Turbine Compressor (GTC)-85 Air Start Units. The unit will be mounted to an A/M 32U-16 Trailer for shore-based use and an A/S 32A-31A Tow Tractor for shipboard use.

Maintenance will be performed by Navy and Marine Corps personnel under the three level maintenance concept (organizational, intermediate, and depot) outlined in the Naval Aviation Maintenance Program, OPNAVINST 4790.2 series. The depot level maintenance activity is planned to be the Original Equipment Manufacture (OEM), Hamilton Sundstrand located in San Diego, California.

No change to the existing organizational or intermediate level maintenance activity billet structure is anticipated to support the operation and maintenance of the MSU 200NAV system. Based on a task and skill analysis of the predecessor system, the skills necessary to operate and maintain the MSU 200NAV system will be the same as those required for the existing GTC-85 Air Start Unit. Operators will be personnel of all Navy aviation maintenance ratings and Marine Corps aviation maintenance personnel. Maintainers will be from the Aviation Support Equipment Technician rating holding Navy Enlisted Classification code 7606 and Marine Corps Military Occupational Specialty 6072.

MSU 200NAV operators will be trained at local Aircraft Intermediate Maintenance Departments in pre-operational and post-operational inspections, unit operation, and general servicing. Intermediate level maintainers in Support Equipment 900 Division will receive en-route training on the MSU 200NAV at either of two locations, Maintenance Training Unit (MTU) 3032 Naval Air Maintenance Training Unit (NAMTRAU) Jacksonville, Florida, or MTU 3033 NAMTRAU North Island, California. Personnel currently assigned to Fleet activities will receive initial MSU 200NAV training from Naval Air Technical Data and Engineering Service Command (NATEC) representatives upon installation of the units at their site.

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LIST OF ACRONYMS

AIMD	Aircraft Intermediate Maintenance Department
AMTCS	Aviation Maintenance Training Continuum System
AS	Aviation Support Equipment Technician
ATS	Air Turbine Starter
CAI	Computer-Aided Instruction
CNO	Chief of Naval Operations
CMI	Computer-Managed Instruction
COMLANTFLT	Commander Atlantic Fleet
COMPACFLT	Commander Pacific Fleet
COSSI	Commercial Operations and Support Savings Initiative
COTS	Commercial Off-The-Shelf
CSDS	Constant Speed Drive Systems
DA	Developing Agency
DT	Developmental Test
ECP	Engineering Change Proposal
ECS	Environmental Control System
EGT	Exhaust Gas Temperature
EMI	Electromagnetic Interference
EMV	Electromagnetic Vulnerability
FADEC	Full Authority Digital Engine Control
FY	Fiscal Year
ICW	Interactive Courseware
LRC	Learning Resource Center
MAG	Marine Aircraft Group
MALS	Marine Aviation Logistics Squadron
MATMEP	Maintenance Training Management and Evaluation Program
MCAS	Marine Corps Air Station
MOJT	Managed On-the-Job Training
MOS	Military Occupational Specialty
MRC	Maintenance Requirements Card
MTIP	Maintenance Training Improvement Program

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LIST OF ACRONYMS

MTU	Maintenance Training Unit
NA	Not Applicable
NAMP	Naval Aviation Maintenance Program
NAMTRAU	Naval Air Maintenance Training Unit
NAS	Naval Air Station
NATEC	Naval Air Technical Data and Engineering Service Command
NAVAIR	Naval Air Systems Command
NAVMAC	Naval Manpower Analysis Center
NEC	Navy Enlisted Classification
NETC	Naval Education and Training Command
NTSP	Navy Training System Plan
OEM	Original Equipment Manufacturer
OPO	OPNAV Principal Official
OT	Operational Test
PMA	Program Manager, Air
RFT	Ready For Training
SELRES	Selected Reserve
SPETE	Special Purpose Electronic Test Equipment
SPTE	Special Purpose Test Equipment
ST	Special Tools
TD	Training Device
TTE	Technical Training Equipment
ULSS	User Logistics Support Summary

MSU 200NAV AIR START UNIT

PREFACE

This Approved Navy Training System Plan (NTSP) for the MSU 200NAV Air Start Unit dated October 2002 has been developed to update the Draft NTSP, N78-NTSP-A-50-0123/D, dated April 2002. The MSU 200NAV Air Start Unit will replace all Gas Turbine Compressor Air Start Units currently in use at Navy and Marine Corps activities beginning with the Gas Turbine Compressor (GTC-85) Air Start Unit.

This NTSP is in compliance with guidelines set forth in the Navy Training Requirements Documentation Manual, OPNAV Publication P-751-1-9-97. This version incorporates comments from the review of the Draft NTSP, N78-NTSP-A-50-0123/D. Comments were submitted by the Naval Manpower Analysis Center (NAVMAC) and Naval Education and Training Command (NETC). The comments were general in nature.

PART I - TECHNICAL PROGRAM DATA

A. NOMENCLATURE-TITLE-PROGRAM

1. **Nomenclature-Title-Acronym.** MSU 200NAV Air Start Unit
2. **Program Element.** 0204161N

B. SECURITY CLASSIFICATION

1. **System Characteristics** Unclassified
2. **Capabilities** Unclassified
3. **Functions** Unclassified

C. MANPOWER, PERSONNEL, AND TRAINING PRINCIPALS

OPNAV Principal Official (OPO) Program Sponsor CNO (N781B)

OPO Resource Sponsor..... CNO (N785D1)

Developing Agency NAVAIR (PMA260)

Training Agency COMLANTFLT
COMPAFLT
NETC
COMNAVAIRESFOR

Training Support Agency..... NAVAIR (PMA205)
COMNAVAIRESFOR

Manpower and Personnel Mission Sponsor..... CNO (N12)
BUPERS (PERS-40, PERS-404)

Director of Naval Training CNO (N00T)

Commander, Reserve Program Manager COMNAVAIRESFOR CNO (N0955F)

Marine Corps Force Structure..... MCCDC (C53)

D. SYSTEM DESCRIPTION

1. Operational Uses. The MSU 200NAV Air Start Unit will provide a source of compressed air for powering Air Turbine Starters (ATS) and Constant Speed Drive Systems (CSDS) for aircraft engine starting and motoring both in and out of airframe (i.e., aircraft and engine test systems support). The MSU 200NAV will also power aircraft Environmental Control Systems (ECS) and Nozzle Rotation Systems (AV-8B). The MSU 200NAV will be used by Navy and Marine Corps personnel aboard aircraft carriers, at Naval Air Stations (NAS), and at Marine Corps Air Stations (MCAS).

The MSU 200NAV will be mounted on the A/S 32A-31A Tow Tractor for shipboard use and mounted to an A/M 32U-16 trailer for shore-based use and shipboard test cell support. An Engineering Change Proposal (ECP) is planned for development in Fiscal Year (FY) 03 to modify the A/S 32A-31A Tow Tractor and A/M 32U-16 Trailer for mounting the MSU 200NAV. When ECP information becomes available it will be included in updates to this NTSP.

2. Foreign Military Sales. The Royal Danish Air Force has also procured the MSU 200. Detailed information on Foreign Military Sales can be obtained from the Program Office, Program Manager, Air (PMA) 260.

E. DEVELOPMENTAL TEST AND OPERATIONAL TEST. The MSU 200NAV is a Commercial Operations and Support Savings Initiative (COSSI) program in the System Development and Demonstration Phase of the Defense Acquisition System. The MSU 200NAV is currently undergoing Technical Evaluation and Supportability Evaluation for the Navy and Marine Corps. This testing was completed in November 2002. More than 150 Commercial Off-The-Shelf MSU 200 units have been delivered since 1996 to more than 24 commercial airlines and airport authorities around the world, including Saudi Arabia and the Royal Danish Air Force.

F. AIRCRAFT AND/OR EQUIPMENT/SYSTEM/SUBSYSTEM REPLACED. The MSU 200NAV will replace all Gas Turbine Compressor Air Start Units currently in use at Navy and Marine Corps activities beginning with the Gas Turbine Compressor (GTC-85) Air Start Units.

G. DESCRIPTION OF NEW DEVELOPMENT

1. Functional Description. The MSU 200NAV is comprised of a small gas turbine engine housed in an aluminum enclosure. The engine provides compressed air at 56 pounds per square inch absolute (psia) and 204 pounds per minute (ppm) with a performance of 396 horsepower at zero bleed air and nominal speed of 46130 Revolutions Per Minute (RPM). The bleed air temperature is +420 degrees Fahrenheit with an operating temperature range of -40 to +135 degrees Fahrenheit. The MSU 200NAV uses JP-4 and JP-5 fuel and has a fuel consumption rate of approximately 37.4 U.S. gallons per hour from either the Trailer or Tow Tractor fuel tanks, but is electrically self-sufficient. The engine uses an electronic control

system and the entire unit is Electromagnetic Interference (EMI) and Electromagnetic Vulnerability (EMV) hardened.

Combustion air for the gas turbine enters the compressor compartment via the inlet grill and cools the components in the compartment. The air then serves as a working medium in the turbine or is used as bleed air to be delivered to the aircraft. Through the effect of the ejector in the exhaust mixer, the turbine exhaust gas creates a negative pressure in the turbine compartment. Cold air to ventilate the compartment enters through the intakes at the front of the unit. This design of the enclosure allows for full utilization of the turbine performance by minimizing installation losses in the air inlet and exhaust system, as well as minimizing the heating of compressor intake air.

2. Physical Description. The MSU 200NAV contains a gas turbine engine, an enclosure to house all applicable components and protect the equipment from the environment, and adapter assemblies for tractor or trailer mounting. The unit will be readily installed using common support equipment and hand tools. The tractor adapter assembly will mount the unit to the rear face of the A/S 32A-31A Tow Tractor utilizing an L-frame platform. The trailer adapter assembly will mount the unit to the A/M 32U-16 Trailer. Neither the tractor nor the trailer is an integral part of the unit. The dimensions of the MSU 200NAV Module without carrying platform are 27.35 inches in height, 36.61 inches in width, and 68.31 inches in length. The module unit's weight without fuel is 950 pounds. A 30-foot flexible air start hose assembly will be supplied as a component of the unit.

The enclosure will have doors to protect the operator controls from the environment. It will provide easy access for fluid level checks, adjustment, replacement of engine and engine accessories, and other major maintenance. The enclosure is made of aluminum. The top of the enclosure will be designed to withstand the action of throwing the air start hose on it. The air start hose has a total weight of 95 pounds and the aircraft connector end weights 17 pounds.

3. New Development Introduction. The MSU 200NAV system will be introduced as new production and will be retrofitted on approximately 459 tractors and trailers from FY03 through FY07.

4. Significant Interfaces. The MSU 200NAV will be capable of interfacing with the following systems:

- Tractor engine, fuel, and electrical system
- Trailer fuel system
- Aircraft engine starter horn coupling

5. New Features, Configurations, or Material. Start-up and operation of the unit are controlled and monitored by the Full Authority Digital Engine Control (FADEC) control panel.

H. CONCEPTS

1. Operational Concept. The MSU 200NAV will be operated by Navy and Marine Corps aviation maintenance personnel at the organizational level.

2. Maintenance Concept. Maintenance will be performed by Navy and Marine Corps aviation maintenance personnel under the three level (organizational, intermediate, and depot) maintenance concept outlined in the Naval Aviation Maintenance Program (NAMP), OPNAVINST 4790.2 series. The specific maintenance concept requirements and allocations as they apply to this program are as follows.

a. Organizational

(1) Preventive Maintenance. The MSU 200NAV will be operated at the squadron level. Preventive Maintenance (PM) is limited to pre-operational and post-operational inspections, cleaning, lubrication, and servicing checks for fuel and oil in accordance with the Maintenance Requirement Cards (MRC).

(2) Corrective Maintenance. No Corrective Maintenance (CM) is performed at the organizational level.

b. Intermediate

(1) Preventive Maintenance. PM consists of pre-operational and post-operational inspections, corrosion inspections and control, cleaning, lubrication, and servicing checks for fuel and oil in accordance with the MRCs.

(2) Corrective Maintenance. CM consists of troubleshooting, unscheduled repair by component removal and replacement as required to return the unit to service, and verifying repair. Intermediate maintenance will be performed by personnel in the Support Equipment 900 Division.

c. Depot. Depot level maintenance will consist of repairs beyond the capability of the Intermediate Maintenance Activity or condemnation in accordance with the Navy Source Maintenance and Recoverability (SM&R) Codes.

d. Interim Maintenance. Interim depot level maintenance will be provided by the contractor, Hamilton Sundstrand located in San Diego, California, in cooperation with Rheinmetall Landsysteme GmbH, located in Falckensteiner Strsse, Kiel, Germany.

e. Life Cycle Maintenance Plan. The maintenance plan is detailed in the MSU 200NAV Maintenance Plan Number M-LI-2002-7.

3. Manning Concept. No change to the existing organizational or intermediate level maintenance activity billet structure is anticipated. Based on a task and skills analysis of the predecessor system, the skills necessary to operate and maintain the MSU 200NAV system will

be basically the same as those of the existing GTC-85 equipment. MSU 200NAV operators will be provided by the organizational level activities using the unit, and maintainers will be provided by the intermediate level activities that have custody of the unit. Operators will be personnel of all Navy aviation maintenance ratings and Marine Corps aviation maintenance personnel. Maintainers will be of the Aviation Support Equipment Technician (AS) rating with Navy Enlisted Classification (NEC) code 7606 or Marine Corps Military Occupational Specialty (MOS) 6072.

4. Training Concept. As with other support equipment, operators will require licenses. As a prerequisite for the license, MSU 200NAV operators will be trained at local Aircraft Intermediate Maintenance Departments (AIMD) and Marine Aviation Logistics Squadrons (MALS) in pre-operational and post-operational inspections, unit operation, and general servicing. This training will be Phase I of the two-phase Support Equipment Training Program. Phase II training will be administered by the operator's command via the Managed On-the-Job Training (MOJT) process. Phase I training will be developed by NAMTRAGRU Headquarters, Pensacola, Florida.

Computer-Based Training is being developed for both the operator and maintenance maintainer. NAMTRAGRU will accomplish the development of the computer-based operator course. A private contractor will develop the computer-based maintenance course.

Intermediate level maintainers in the Support Equipment 900 Division will require training on the MSU 200NAV at either Maintenance Training Unit (MTU) 3032 Naval Air Maintenance Training Unit (NAMTRAU) Jacksonville, Florida, or MTU 3033 NAMTRAU North Island, California.

Naval Air Technical Data and Engineering Service Command (NATEC) representatives will provide the initial training for onboard personnel as the MSU 200NAV is received at each site. Upon site activation, the NATEC representatives will train Navy AS or Marine Corps MOS 6072 personnel in operation and maintenance.

Most NECs are potentially awarded to Selected Reserve (SELRES) personnel. However, given an individual's current and previous experience, it is not always feasible for SELRES personnel to be awarded an NEC that entails a long training period. Normally, a SELRES billet for a particular NEC that requires a long training period is filled by personnel who were awarded that NEC while on active duty or are willing to attend the required courses, given that a quota and funding are available.

For SELRES personnel to be awarded an NEC, each person's current skills, knowledge, and previous training is evaluated on an individual basis by the Commander, Naval Air Reserve Force and the MTU. In some cases, additional training is required.

Selected Reserve personnel may earn intermediate level maintenance qualifications by attending formal training at NAMTRAU, providing quotas, funding, and students are available to attend the training. Specific guidelines are contained in NAVPERS 18068F Volume II, Chapter IV, Navy Enlisted Classifications.

The established training concept for most aviation maintenance training divides “A” School courses into two or more segments called *Core* and *Strand*. Many organizational level “C” School courses are also divided into separate *Initial* and *Career* training courses. “A” School *Core* courses include general knowledge and skills training for the particular rating, while “A” School *Strand* courses focus on the more specialized training requirements for that rating and a specific aircraft or equipment, based on the student’s fleet activity destination. *Strand* training immediately follows *Core* training and is part of the “A” School. Upon completion of *Core* and *Strand* “A” Schools, Navy graduates going to organizational level activities attend the appropriate *Initial* “C” School for additional specific training. *Initial* “C” School training is intended for students in paygrades E-4 and below. *Career* “C” School training is provided to organizational level personnel, E-5 and above, to enhance skills and knowledge within their field. “A” School graduates going to intermediate level activities attend the appropriate intermediate level “C” School.

Marine Corps graduates of *Core* and *Strand* “A” school attend the appropriate *Career* “C” School for additional training on a specific type of aircraft or equipment, and to enhance skills and knowledge within their field. Marine Corps graduates from “C” School receive their primary MOS.

Intermediate level “C” Schools are not separated into *Initial* and *Career* courses.

a. Initial Training. Initial training for Developmental Test (DT) personnel in operation and maintenance was completed in FY01. Initial training for NAMTRAU Instructors and NATEC Representatives in the operation of the MSU 200NAV is planned for November 2002. Initial training for NAMTRAU Instructors and NATEC Representatives in the maintenance for the MSU 200NAV is planned for November 2003. NATEC will provide initial training for shipboard Operational Test (OT) personnel in operation and maintenance upon installation and delivery until formal training is available. The operation and maintenance course will be presented to NATEC representatives, and validated and verified with in December 2003.

Title	MSU 200NAV Air Start Unit Engine and Enclosure Intermediate Maintenance
Description.....	This initial training will familiarize the Navy or Marine Corps operator and maintainer with the major differences between the MSU 200NAV and the systems it is replacing. Upon completion, the student will be able to perform operation and maintenance tasks to support DT.
Location	Government facilities
Length	3 days (estimated)
RFT date	Currently planned for February 2005
TTE/TD.....	MSU 200NAV

Prerequisites..... ° AS 7606
° MOS 6072

Title **MSU 200NAV Air Start Unit Engine and Enclosure Intermediate Maintenance**

Description..... This initial training will familiarize the NATEC Representative with the major differences between the MSU 200NAV and the systems it is replacing. Upon completion, the student will be able to perform technical support to the fleet.

Location Government facilities

Length 3 days (estimated)

RFT date Currently planned for February 2005

TTE/TD MSU 200NAV

Prerequisites..... NATEC Representative

b. Follow-on Training. A new intermediate level maintenance training course will be established for the MSU 200NAV. The new course, *C-602-3XXX, MSU 200NAV Engine and Enclosure Intermediate Maintenance*, will be included in the following training tracks:

- ° *D/E-602-7005, Support Equipment Gas Turbine Intermediate Maintenance*
- ° *D/E-602-7040, Support Equipment Engine/Gas Turbine and Related Systems Intermediate Maintenance*

Upon fleet introduction, the MSU 200NAV maintenance course, *C-602-3XXX, MSU 200NAV Engine and Enclosure Intermediate Maintenance*, will replace the GTC-85 course *C-602-3211A* in training tracks *D/E 602-7005* and *D/E 602-7040*. The GTC-85 course will remain active as a stand-alone course for 24 months while the GTC-85s are retired from service. The Ready For Training (RFT) date for *C-602-3XXX, MSU 200NAV Engine and Enclosure Intermediate Maintenance*, is planned for February 2005.

Title	Support Equipment Gas Turbine Intermediate Maintenance Course
CIN	D/E-602-7005
Model Manager....	MTU 3032 NAMTRAU Jacksonville
Description.....	<p>This track provides training to the Navy Aviation Support Equipment Technician and includes the following Gas Turbine Compressor Air Start Unit engine and enclosure topics:</p> <ul style="list-style-type: none"> ° Theory ° Operation ° System Analysis ° Testing and Troubleshooting ° Repair Procedures ° Publications ° Safety <p>Upon completion the student will be able to perform intermediate level maintenance on Gas Turbine Compressor Air Start Unit engines and enclosures in a shop environment under limited supervision.</p>
Locations	<ul style="list-style-type: none"> ° MTU 3032 NAMTRAU Jacksonville ° MTU 3033 NAMTRAU North Island
Length	51 days
RFT date	<ul style="list-style-type: none"> ° Currently available without MSU 200NAV ° RFT with MSU 200NAV incorporated: February 2005
Skill identifier	AS 7606
TTE/TD.....	GTC-85-72, GTCP 100-82, MSU 200NAV, and others (refer to element IV.A.1 and IV.A.2)
Prerequisites.....	C-602-2026, Aviation Support Equipment Technician Class A1

Title **Support Equipment Engine/Gas Turbine and Related Systems Intermediate Maintenance Course**

CIN D/E-602-7040

Model Manager.... MTU 3032 NAMTRAU Jacksonville

Description..... This track provides training to the Marine Corps Aviation Support Equipment Technician and includes the following Gas Turbine Compressor Air Start Unit engine and enclosure topics:

- ° Theory
- ° Operation
- ° System Analysis
- ° Testing and Troubleshooting
- ° Repair Procedures
- ° Publications
- ° Safety

Upon completion the student will be able to perform intermediate level maintenance on Gas Turbine Compressor Air Start Unit engines and enclosures in a shop environment under limited supervision.

Locations ° MTU 3032 NAMTRAU Jacksonville
° MTU 3033 NAMTRAU North Island

Length..... 107 days

RFT date ° Currently available without MSU 200NAV
° RFT with MSU 200NAV incorporated: February 2005

Skill identifier MOS 6072

TTE/TD..... GTC-85-72, GTCP 100-82, MSU 200NAV, and others (refer to element IV.A.1 and IV.A.2)

Prerequisite C-602-2026, Aviation Support Equipment Technician Class A1

c. Student Profiles

SKILL IDENTIFIER	PREREQUISITE SKILL AND KNOWLEDGE REQUIREMENTS
AS 7606	° C-602-2026, Aviation Support Equipment Technician Class A1
MOS 6072	° C-602-2026, Aviation Support Equipment Technician Class A1

d. Training Pipelines. The new course, *C-602-3XXX, MSU 200NAV Engine and Enclosure Intermediate Maintenance*, will not increase the length of training tracks *D/E 602-7005* or *D/E 602-4070*, nor will it affect any other training tracks.

I. ONBOARD (IN-SERVICE) TRAINING

1. Proficiency or Other Training Organic to the New Development

a. Maintenance Training Improvement Program. Current planning is to adopt the Aviation Maintenance Training Continuum System (AMTCS) concepts to replace Maintenance Training Improvement Program (MTIP). AMTCS is scheduled to begin full implementation for fleet deployment in FY03.

b. Aviation Maintenance Training Continuum System. AMTCS will provide career path training to the Sailor or Marine from their initial service entry to the end of their military career. AMTCS concepts will provide an integrated system that will satisfy the training and administrative requirements of both the individual and the organization. The benefits will be manifested in the increased effectiveness of the technicians and the increased efficiencies of the management of the training business process. Where appropriate, capitalizing on technological advances and integrating systems and processes can provide the right amount of training at the right time, thus meeting the Chief of Naval Operations' (CNO) mandated "just-in-time" training approach.

Technology investments enable the development of several state-of-the-art training and administrative tools: Interactive Multimedia Instruction (IMI) for the technicians in the Fleet in the form of Interactive Courseware (ICW) with Computer-Managed Instruction (CMI) and Computer-Aided Instruction (CAI) for the schoolhouse. Computer based training is being developed for both the operator and maintenance maintainer. NAMTRAU Headquarters, Pensacola Florida, will accomplish the development of the computer base operators course. A private contractor will develop the computer based maintenance course.

Included in the AMTCS development effort is the Aviation Maintenance Training Continuum System - Software Module, which provides testing [Test and Evaluation], recording [Electronic Certification Qualification Records], and a Feedback system. The core functionality of these AMTCS tools are based and designed around the actual maintenance-related tasks the technicians perform, and the tasks are stored and maintained in a Master Task List data bank. These tools are procured and fielded with appropriate Commercial-Off-The-Shelf (COTS) hardware and software, i.e., Fleet Training Devices - Laptops, PCs, Electronic Classrooms, Learning Resource Centers (LRC), operating software, and network software and hardware.

Upon receipt of direction from OPNAV (N789H), AMTCS concepts are to be implemented and the new tools integrated into the daily training environment of all, participating aviation activities and supporting elements. AMTCS will serve as the standard training system for aviation maintenance training within the Navy and Marine Corps, and is planned to

supersede the existing MTIP and Maintenance Training Management and Evaluation Program (MATMEP) programs.

2. Personnel Qualification Standards. Not Applicable (NA)

3. Other Onboard or In-Service Training Packages. Marine Corps onboard training is based on the current series of MCO P4790.12, Individual Training Standards System and Maintenance Training Management and Evaluation Program (MATMEP). This program is designed to meet Marine Corps, as well as Navy OPNAVINST 4790.2 series, maintenance training requirements. It is a performance-based, standardized, level-progressive, documentable, training management and evaluation program. It identifies and prioritizes task inventories by MOS through a front-end analysis process that identifies task, skill, and knowledge requirements of each MOS. MTIP questions coupled to MATMEP tasks will help identify training deficiencies that can be enhanced with refresher training. (MATMEP is planned to be replaced by AMTCS.)

J. LOGISTICS SUPPORT

1. Manufacturer and Contract Numbers

CONTRACT NUMBER	MANUFACTURER	ADDRESS
Developmental Contract: N68335-00-9-0339	Hamilton Sundstrand United Technologies Company	P.O. Box 85757 4400 Ruffin Road San Diego, CA 92186-5757

Note 1: Follow-on Production Contract award is scheduled for March 2003.

Note 2: Interim spares and a repair contract will be in place prior to the delivery of the first MSU 200NAV in May 2004.

2. Program Documentation. The User Logistics Support Summary (ULSS) is currently planned for approval and delivery in December 2003.

3. Technical Data Plan. The Technical Manual for the MSU 200NAV is currently being rewritten to a standard Navy Work Package format and is planned for completion in February 2004.

4. Test Sets, Tools, and Test Equipment. There are no requirements for special tools or test sets to support the MSU 200NAV.

5. Repair Parts. The requirements for spares and repair parts have not yet been determined. When these requirements are identified they will be included in updates to this

NTSP. The Material Support Date for the MSU 200NAV is currently planned for November 2005.

6. Human Systems Integration. NA

K. SCHEDULES

1. Installation and Delivery Schedules. Installation and delivery schedules are to be determined. When delivery information becomes available it will be included in updates to this NTSP. The currently planned procurement for the MSU 200NAV is for a total of 459 units with the following schedule. The currently planned total of 459 units may increase in the future.

	FY03	FY04	FY05	FY06	FY07
UNITS	49	120	120	120	50

2. Ready For Operational Use Schedule. The actual delivery dates for individual sites has not yet been determined. The MSU 200NAV will be considered ready for operational use upon completion of installation. Installation is scheduled to begin in FY04 and be completed in FY07.

3. Time Required to Install at Operational Sites. The time required to install each MSU 200NAV on an L-frame assembly and mount it to the A/S 32A-31A Tow Tractor is estimated at 1.5 hours. The mounting of each MSU 200NAV on the A/M 32U-16 Trailer is estimated at 0.5 hours. Receiving activities will be required to mount the MSU 200NAV.

4. Foreign Military Sales and Other Source Delivery Schedule. NA

5. Training Device and Technical Training Equipment Delivery Schedule

ACTIVITY	TTE REQUIRED	DATE REQUIRED	READY FOR TRAINING DATE
MTU 3032 NAMTRAU Jacksonville	MSU 200NAV: ◦ One shore-based ◦ One shipboard	Shore-based:May 04 Shipboard:May 04	Feb 05 Feb 05
MTU 3033 NAMTRAU North Island	MSU 200NAV: ◦ One shore-based ◦ One shipboard	Shore-based: ...Nov 03 Shipboard:May 04	Feb 05 Feb 05

Note: In November 2003, MTU 3033 NAMTRAU North Island will receive one pre-production MSU 200NAV shore-based unit for training purposes only.

L. GOVERNMENT FURNISHED EQUIPMENT AND CONTRACTOR FURNISHED EQUIPMENT TRAINING REQUIREMENTS. NA

M. RELATED NTSPs AND OTHER APPLICABLE DOCUMENTS

DOCUMENT OR NTSP TITLE	DOCUMENT NUMBER	PDA CODE	STATUS
GTCP100-82 Support Equipment Gas Turbine Engine	NTP-A-50-8609A/A	PMA260	Approved Sep 93
MSU 200NAV Maintenance Plan	M-LI-2002-7	PMA260	Draft Aug 02

Note: The Maintenance Plan for the MSU 200NAV is planned for final approval in November 2003.

PART II - BILLET AND PERSONNEL REQUIREMENTS

II.A. BILLET REQUIREMENTS

SOURCE: Total Force Manpower Management System
Extract from Table of Manpower Requirements, TFS, MCCDC

DATE: November 2002
November 2002

II.A.1.a. OPERATIONAL AND FLEET SUPPORT ACTIVITY ACTIVATION SCHEDULE

ACTIVITY, UIC		PFYs	CFY03	FY04	FY05	FY06	FY07
OPERATIONAL ACTIVITIES - USMC							
HMH-461	09582	1	0	0	0	0	0
HMH-464	53935	1	0	0	0	0	0
HMH-772	09490	1	0	0	0	0	0
HMLA-167	09167	1	0	0	0	0	0
HMLA-169	31053	1	0	0	0	0	0
HMLA-269	52841	1	0	0	0	0	0
HMLA-773	67826	1	0	0	0	0	0
HMLA-773 Det A	09472	1	0	0	0	0	0
HMLA-775 Det A	45238	1	0	0	0	0	0
HMM (CH-46E) (East)	00000	6	0	0	0	0	0
HMH-362	09495	1	0	0	0	0	0
HMM-774	09430	1	0	0	0	0	0
HMX-1	55616	1	0	0	0	0	0
MALS-16 (RW)	55583	1	0	0	0	0	0
MALS-26 (RW)	09167	1	0	0	0	0	0
MALS-29 (RW)	52841	1	0	0	0	0	0
MALS-49 (RW)	55555	1	0	0	0	0	0
VMA-223	09438	1	0	0	0	0	0
VMA-231	52948	1	0	0	0	0	0
VMA-542	52847	1	0	0	0	0	0
VMAQ-1	41345	1	0	0	0	0	0
VMAQ-2	42362	1	0	0	0	0	0
VMAQ-3	42363	1	0	0	0	0	0
VMAQ-4	67837	1	0	0	0	0	0
VMAT-203	57080	1	0	0	0	0	0
VMFA (AW)-224	09439	1	0	0	0	0	0
VMFA (AW)-232	09501	1	0	0	0	0	0
VMFA (AW)-533	09195	1	0	0	0	0	0
VMFA-115	09234	1	0	0	0	0	0
VMFA-122	09407	1	0	0	0	0	0
VMFA-142	08966	1	0	0	0	0	0
VMFA-251	09241	1	0	0	0	0	0
VMFA-312	09253	1	0	0	0	0	0
VMFA-321	09265	1	0	0	0	0	0
VMGR-252 Det A+B	09387	1	0	0	0	0	0
VMGR-452	55215	1	0	0	0	0	0
VMM (MV-22A)	00000	0	1	1	1	1	0
VMMT-204	00000	1	0	0	0	0	0
VMR-1	09038	1	0	0	0	0	0
VMU-2	57080	1	0	0	0	0	0
HMH-361	09008	1	0	0	0	0	0

II.A.1.a. OPERATIONAL AND FLEET SUPPORT ACTIVITY ACTIVATION SCHEDULE

ACTIVITY, UIC		PFYs	CFY03	FY04	FY05	FY06	FY07
HMH-462	09349	1	0	0	0	0	0
HMH-465	53936	1	0	0	0	0	0
HMH-769	09487	1	0	0	0	0	0
HMLA-267	31053	1	0	0	0	0	0
HMLA-367	31053	1	0	0	0	0	0
HMLA-369	31053	1	0	0	0	0	0
HMLA-775	46615	1	0	0	0	0	0
HMM (CH-46E) (West)	00000	6	0	0	0	0	0
HMM (T) 164	09408	1	0	0	0	0	0
HMH-363	09496	1	0	0	0	0	0
HMH-463	09010	1	0	0	0	0	0
HMM-764	09402	1	0	0	0	0	0
HMT-301	31947	1	0	0	0	0	0
HMT-302	09132	1	0	0	0	0	0
HMT-303	55176	1	0	0	0	0	0
MALS-36 (RW)	09136	1	0	0	0	0	0
MALS-39 (RW)	09808	1	0	0	0	0	0
Marine Aviation Weapons and Tactics Squadron	55167	1	0	0	0	0	0
VMA-211	09412	1	0	0	0	0	0
VMA-214	09436	1	0	0	0	0	0
VMA-311	09416	1	0	0	0	0	0
VMA-513	09231	1	0	0	0	0	0
VMFA (AW)-121	09257	1	0	0	0	0	0
VMFA (AW)-225	09232	1	0	0	0	0	0
VMFA (AW)-242	09668	1	0	0	0	0	0
VMFA-112	08954	1	0	0	0	0	0
VMFA-134	09365	1	0	0	0	0	0
VMFA-212	09434	1	0	0	0	0	0
VMFA-232	09242	1	0	0	0	0	0
VMFA-314	09230	1	0	0	0	0	0
VMFA-323	09235	1	0	0	0	0	0
VMFAT-101	47046	1	0	0	0	0	0
VMGR-152 Det A+B	09443	1	0	0	0	0	0
VMGR-234	08344	1	0	0	0	0	0
VMGR-352 Det A+B	09182	1	0	0	0	0	0
VMGTR-253	57080	1	0	0	0	0	0
VMU-1	31055	1	0	0	0	0	0
TOTAL:		87	1	1	1	1	0
FLEET SUPPORT ACTIVITIES - USN							
ABFC FMP ALPHA	68822	1	0	0	0	0	0
ABFC FMP HOTEL	68822	1	0	0	0	0	0
AIMD Sigonella Det Rota	44374	1	0	0	0	0	0
COMLANDCENT TH HQ Sarajevo	46551	1	0	0	0	0	0
NAF Washington RAIMD	44492	1	0	0	0	0	0
NAS Atlanta RAIMD	44486	1	0	0	0	0	0
NAS Brunswick AIMD	44314	1	0	0	0	0	0
NAS Jacksonville AIMD	44319	1	0	0	0	0	0
NAS Keflavik AIMD	44335	1	0	0	0	0	0
NAS Key West AIMD	44320	1	0	0	0	0	0

II.A.1.a. OPERATIONAL AND FLEET SUPPORT ACTIVITY ACTIVATION SCHEDULE

ACTIVITY, UIC		PFYs	CFY03	FY04	FY05	FY06	FY07
NAS New Orleans RAIMD	44490	1	0	0	0	0	0
NAS Oceana AIMD	44327	1	0	0	0	0	0
NAS Sigonella AIMD	44330	1	0	0	0	0	0
NAS Willow Grove RAIMD	44493	1	0	0	0	0	0
NAVAIRENGSTA Lakehurst	48558	1	0	0	0	0	0
NAVTEST WINGLANT	39782	1	0	0	0	0	0
NAS Norfolk AIMD	44325	1	0	0	0	0	0
NS Mayport AIMD	45459	1	0	0	0	0	0
NS Roosevelt Roads AIMD	44373	1	0	0	0	0	0
USS Abraham Lincoln CVN 72	21297	1	0	0	0	0	0
USS Dwight D. Eisenhower CVN 69	03369	1	0	0	0	0	0
USS Enterprise CVN 65	03365	1	0	0	0	0	0
USS George Washington CVN 73	21412	1	0	0	0	0	0
USS Harry S. Truman CV 75	21853	1	0	0	0	0	0
USS John C. Stennis CVN 74	21847	1	0	0	0	0	0
USS John F. Kennedy CV 67	03367	1	0	0	0	0	0
USS Ronald Reagan CVN 76	22178	0	1	0	0	0	0
USS Theodore Roosevelt CVN 71	21247	1	0	0	0	0	0
AIMD MCBH Kaneohe Bay	44312	1	0	0	0	0	0
COMAEWWINGPAC Det AIMD	44328	1	0	0	0	0	0
COMFLTACT Okinawa	62254	1	0	0	0	0	0
COMSEACONTROLWINGPAC Det AIMD	44326	1	0	0	0	0	0
COMSTRKFIGHTWINGPAC Det AIMD	44321	1	0	0	0	0	0
COMVAQWINGPAC Det AIMD	44329	1	0	0	0	0	0
FMP MMF CHARLIE	68704	1	0	0	0	0	0
NAF Atsugi AIMD	44323	1	0	0	0	0	0
NAF Misawa AIMD	44331	1	0	0	0	0	0
NAS JRB Fort Worth RAIMD	44487	1	0	0	0	0	0
Naval Support Activity Bahrain	63005	1	0	0	0	0	0
USS Carl Vinson CVN 70	20993	1	0	0	0	0	0
USS Constellation CV 64	03364	1	0	0	0	0	0
USS Kitty Hawk CV 63	03363	1	0	0	0	0	0
USS Nimitz CVN 68	03368	1	0	0	0	0	0
TOTAL:		42		01	0	0	0
FLEET SUPPORT ACTIVITIES - USMC							
Blount Island Command	32264	1	0	0	0	0	0
Flag and Staff Allow, US Atlantic Flt and NAVEUR	00000	1	0	0	0	0	0
H&HS MCAS Beaufort	60169	1	0	0	0	0	0
MALS-14	09114	1	0	0	0	0	0
MALS-31	09131	1	0	0	0	0	0
MALS-42 (RW)	09513	1	0	0	0	0	0
Marine Aviation Det, Patuxent River	67356	1	0	0	0	0	0
MAW HQ	00000	3	0	0	0	0	0
MC Pers Det of Navy, Non-Dept	00000	1	0	0	0	0	0
Personnel Management DIV MM	00000	1	0	0	0	0	0
H&HS MCAS Futenma	63026	1	0	0	0	0	0
H&HS MCAS Iwakuni	62613	1	0	0	0	0	0
H&HS MCAS Miramar	52817	1	0	0	0	0	0
H&HS MCAS Yuma	62974	1	0	0	0	0	0

II.A.1.a. OPERATIONAL AND FLEET SUPPORT ACTIVITY ACTIVATION SCHEDULE

ACTIVITY, UIC		PFYs	CFY03	FY04	FY05	FY06	FY07
MALS-11	09111	1	0	0	0	0	0
MALS-12	09112	1	0	0	0	0	0
MALS-13	55585	1	0	0	0	0	0
MALS-41 (FW)	67239	1	0	0	0	0	0
Marine Aviation Logistics Support Element	31947	1	0	0	0	0	0
MCAGCC, MWSS Augment, 29 Palms	67724	1	0	0	0	0	0
MCAGCC, MWSS Augment, 29 Palms (MALS-11)	67724	1	0	0	0	0	0
MCAGCC, MWSS Augment, 29 Palms (MALS-13)	67724	1	0	0	0	0	0
MCAGCC, MWSS Augment, 29 Palms (MALS-16)	67724	1	0	0	0	0	0
MCAGCC, MWSS Augment, 29 Palms (MALS-39)	67724	1	0	0	0	0	0
MWSS 374 (-) (REIN)	67724	1	0	0	0	0	0
Site Support, Fort Worth	48041	1	0	0	0	0	0
Mountain Warfare Training Center, Training Com.	64495	1	0	0	0	0	0
MATSG-21	67389	1	0	0	0	0	0
NAMTRAGRU, MARCOR Personnel	45595	1	0	0	0	0	0
NAMTRA MARUNIT New River	52842	1	0	0	0	0	0
TOTAL:		32	0	0	0	0	0

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS		DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
	OFF	ENL			
OPERATIONAL ACTIVITIES - USMC					
HMH-461, 09582					
USMC	0	5	LCPL	6072	
	0	1	SSGT	6072	
ACTIVITY TOTAL:	0	6			
HMH-464, 53935					
USMC	0	5	LCPL	6072	
	0	1	SSGT	6072	
ACTIVITY TOTAL:	0	6			
HMH-772, 09490					
USMC	0	1	LCPL	6072	
	0	1	SSGT	6072	
ACTIVITY TOTAL:	0	2			
HMLA-167, 09167					
USMC	0	3	LCPL	6072	
	0	3	SGT	6072	
ACTIVITY TOTAL:	0	6			
HMLA-169, 31053					
USMC	0	3	LCPL	6072	
	0	3	SGT	6072	
ACTIVITY TOTAL:	0	6			
HMLA-269, 52841					
USMC	0	3	LCPL	6072	
	0	3	SGT	6072	
ACTIVITY TOTAL:	0	6			
HMLA-773, 67826					
USMC	0	1	LCPL	6072	
	0	1	SGT	6072	
SMCR	0	1	LCPL	6072	
	0	1	SGT	6072	
ACTIVITY TOTAL:	0	4			

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS		DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
	OFF	ENL			
HMLA-773 Det A, 09472					
USMC	0	1	SGT	6072	
	0	1	LCPL	6072	
SMCR	0	1	SGT	6072	
	0	1	LCPL	6072	
ACTIVITY TOTAL:	0	4			
HMLA-775 Det A, 45238					
USMC	0	1	LCPL	6072	
AR	0	1	SGT	6072	
ACTIVITY TOTAL:	0	2			
HMM (CH-46E) (East), 00000					
USMC	0	18	CPL	6072	
	0	12	LCPL	6072	
	0	6	SSGT	6072	
ACTIVITY TOTAL:	0	36			
HMH-362, 09495					
USMC	0	1	LCPL	6072	
	0	1	SSGT	6072	
ACTIVITY TOTAL:	0	2			
HMM-774, 09430					
USMC	0	1	LCPL	6072	
	0	1	SSGT	6072	
AR	0	2	CPL	6072	
SMCR	0	1	CPL	6072	
	0	1	LCPL	6072	
ACTIVITY TOTAL:	0	6			
HMX-1, 55616					
USMC	0	4	CPL	6072	
	0	2	LCPL	6072	
	0	7	SGT	6072	
	0	1	SSGT	6072	
ACTIVITY TOTAL:	0	14			

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS		DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
	OFF	ENL			
MALS-16 (RW), 55583					
USMC	0	2	GYSGT	6072	
	0	3	LCPL	6072	
	0	5	SGT	6072	
	0	2	SSGT	6072	
ACTIVITY TOTAL:	0	12			
MALS-26 (RW), 09167					
USMC	0	2	GYSGT	6072	
	0	3	LCPL	6072	
	0	5	SGT	6072	
	0	2	SSGT	6072	
ACTIVITY TOTAL:	0	12			
MALS-29 (RW), 52841					
USMC	0	2	GYSGT	6072	
	0	3	LCPL	6072	
	0	5	SGT	6072	
	0	2	SSGT	6072	
ACTIVITY TOTAL:	0	12			
MALS-49 (RW), 55555					
USMC	0	1	GYSGT	6072	
	0	1	LCPL	6072	
	0	1	SGT	6072	
	0	1	SSGT	6072	
SMCR	0	1	GYSGT	6072	
	0	2	LCPL	6072	
	0	4	SGT	6072	
	0	1	SSGT	6072	
ACTIVITY TOTAL:	0	12			
VMA-223, 09438					
USMC	0	2	CPL	6072	
	0	2	LCPL	6072	
	0	1	SGT	6072	
	0	1	SSGT	6072	
ACTIVITY TOTAL:	0	6			

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS		DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
	OFF	ENL			
VMA-231, 52948					
USMC	0	2	CPL	6072	
	0	2	LCPL	6072	
	0	1	SGT	6072	
	0	1	SSGT	6072	
ACTIVITY TOTAL:	0	6			
VMA-542, 52847					
USMC	0	2	CPL	6072	
	0	2	LCPL	6072	
	0	1	SGT	6072	
	0	1	SSGT	6072	
ACTIVITY TOTAL:	0	6			
VMAQ-1, 41345					
USMC	0	1	CPL	6072	
	0	3	LCPL	6072	
	0	1	SGT	6072	
ACTIVITY TOTAL:	0	5			
VMAQ-2, 42362					
USMC	0	1	CPL	6072	
	0	3	LCPL	6072	
	0	1	SGT	6072	
ACTIVITY TOTAL:	0	5			
VMAQ-3, 42363					
USMC	0	1	CPL	6072	
	0	3	LCPL	6072	
	0	1	SGT	6072	
ACTIVITY TOTAL:	0	5			
VMAQ-4, 67837					
USMC	0	1	CPL	6072	
	0	3	LCPL	6072	
	0	1	SGT	6072	
ACTIVITY TOTAL:	0	5			

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS		DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
	OFF	ENL			
VMAT-203, 57080					
USMC	0	1	CPL	6072	
	0	5	LCPL	6072	
	0	1	SGT	6072	
ACTIVITY TOTAL:	0	7			
VMFA (AW)-224, 09439					
USMC	0	3	LCPL	6072	
	0	2	SGT	6072	
ACTIVITY TOTAL:	0	5			
VMFA (AW)-232, 09501					
USMC	0	3	LCPL	6072	
	0	2	SGT	6072	
ACTIVITY TOTAL:	0	5			
VMFA-122, 09407					
USMC	0	1	CPL	6072	
	0	3	LCPL	6072	
VMFA (AW)-533, 09195					
USMC	0	3	LCPL	6072	
	0	2	SGT	6072	
ACTIVITY TOTAL:	0	5			
VMFA-115, 09234					
USMC	0	1	CPL	6072	
	0	3	LCPL	6072	
ACTIVITY TOTAL:	0	4			
ACTIVITY TOTAL:	0	4			
VMFA-142, 08966					
USMC	0	1	LCPL	6072	
AR	0	1	CPL	6072	
SMCR	0	1	LCPL	6072	

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS		DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
	OFF	ENL			
VMFA-142, 08966, FY03 Increment					
SMCR	0	1	LCPL	6072	
ACTIVITY TOTAL:	0	4			
VMFA-251, 09241					
USMC	0	1	CPL	6072	
	0	3	LCPL	6072	
ACTIVITY TOTAL:	0	4			
VMFA-312, 09253					
USMC	0	1	CPL	6072	
	0	3	LCPL	6072	
ACTIVITY TOTAL:	0	4			
VMFA-321, 09265					
USMC	0	2	LCPL	6072	
AR	0	1	CPL	6072	
	0	1	LCPL	6072	
ACTIVITY TOTAL:	0	4			
VMGR-252 Det A+B, 09387					
USMC	0	1	CPL	6072	
	0	1	LCPL	6072	
ACTIVITY TOTAL:	0	2			
VMGR-452, 55215					
USMC	0	1	LCPL	6072	
AR	0	1	CPL	6072	
SMCR	0	1	CPL	6072	
	0	1	LCPL	6072	
ACTIVITY TOTAL:	0	4			

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS		DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
	OFF	ENL			
VMM (MV-22A), 00000, FY03 Increment					
USMC	0	1	CPL	6072	
	0	1	LCPL	6072	
	0	1	SSGT	6072	
VMM (MV-22A), 00000, FY04 Increment					
USMC	0	1	CPL	6072	
	0	1	LCPL	6072	
	0	1	SSGT	6072	
VMM (MV-22A), 00000, FY05 Increment					
USMC	0	1	CPL	6072	
	0	1	LCPL	6072	
	0	1	SSGT	6072	
VMM (MV-22A), 00000, FY06 Increment					
USMC	0	1	CPL	6072	
	0	1	LCPL	6072	
	0	1	SSGT	6072	
VMM (MV-22A), 00000, FY07 Increment					
USMC	0	2	CPL	6072	
	0	2	LCPL	6072	
	0	2	SSGT	6072	
ACTIVITY TOTAL:	0	18			
VMMT-204, 00000					
USMC	0	6	LCPL	6072	
ACTIVITY TOTAL:	0	6			
VMR-1, 09038					
USMC	0	1	CPL	6072	
	0	1	GYSGT	6072	
	0	1	LCPL	6072	
ACTIVITY TOTAL:	0	3			
VMU-2, 57080					
USMC	0	1	CPL	6072	
	0	1	LCPL	6072	
ACTIVITY TOTAL:	0	2			

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS		DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
	OFF	ENL			
HMH-361, 09008					
USMC	0	5	LCPL	6072	
	0	1	SSGT	6072	
ACTIVITY TOTAL:	0	6			
HMH-462, 09349					
USMC	0	5	LCPL	6072	
	0	1	SSGT	6072	
ACTIVITY TOTAL:	0	6			
HMH-465, 53936					
USMC	0	5	LCPL	6072	
	0	1	SSGT	6072	
ACTIVITY TOTAL:	0	6			
HMH-769, 09487					
USMC	0	1	LCPL	6072	
	0	1	SSGT	6072	
ACTIVITY TOTAL:	0	2			
HMLA-267, 31053					
USMC	0	3	LCPL	6072	
	0	3	SGT	6072	
ACTIVITY TOTAL:	0	6			
HMLA-367, 31053					
USMC	0	3	LCPL	6072	
	0	3	SGT	6072	
ACTIVITY TOTAL:	0	6			
HMLA-369, 31053					
USMC	0	3	LCPL	6072	
	0	3	SGT	6072	
ACTIVITY TOTAL:	0	6			

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS		DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
	OFF	ENL			
HMLA-775, 46615					
USMC	0	1	LCPL	6072	
	0	1	SGT	6072	
SMCR	0	1	LCPL	6072	
	0	1	SGT	6072	
ACTIVITY TOTAL:	0	4			
HMM (CH-46E) (West), 00000					
USMC	0	18	CPL	6072	
	0	12	LCPL	6072	
	0	6	SSGT	6072	
ACTIVITY TOTAL:	0	36			
HMM (T) 164, 09408					
USMC	0	5	LCPL	6072	
	0	1	SSGT	6072	
ACTIVITY TOTAL:	0	6			
HMH-363, 09496					
USMC	0	1	LCPL	6072	
	0	1	SSGT	6072	
ACTIVITY TOTAL:	0	2			
HMH-463, 09010					
USMC	0	1	LCPL	6072	
	0	1	SSGT	6072	
ACTIVITY TOTAL:	0	2			
HMM-764, 09402					
USMC	0	1	LCPL	6072	
	0	1	SSGT	6072	
AR	0	2	CPL	6072	
SMCR	0	1	CPL	6072	
	0	1	LCPL	6072	
ACTIVITY TOTAL:	0	6			

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS		DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
	OFF	ENL			
HMT-301, 31947					
USMC	0	3	LCPL	6072	
ACTIVITY TOTAL:	0	3			
HMT-302, 09132					
USMC	0	5	LCPL	6072	
ACTIVITY TOTAL:	0	5			
HMT-303, 55176					
USMC	0	3	LCPL	6072	
	0	2	SGT	6072	
ACTIVITY TOTAL:	0	5			
MALS-36 (RW), 09136					
USMC	0	2	GYSGT	6072	
	0	3	LCPL	6072	
	0	5	SGT	6072	
	0	2	SSGT	6072	
ACTIVITY TOTAL:	0	12			
MALS-39 (RW), 09808					
USMC	0	2	GYSGT	6072	
	0	3	LCPL	6072	
	0	5	SGT	6072	
	0	2	SSGT	6072	
ACTIVITY TOTAL:	0	12			
Marine Aviation Weapons and Tactics Squadron One, 55167					
USMC	0	1	GYSGT	6072	
ACTIVITY TOTAL:	0	1			
VMA-211, 09412					
USMC	0	2	CPL	6072	
	0	2	LCPL	6072	
	0	1	SGT	6072	
	0	1	SSGT	6072	
ACTIVITY TOTAL:	0	6			

II.A.1.b. BILLETTS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETTS		DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
	OFF	ENL			
VMA-214, 09436					
USMC	0	2	CPL	6072	
	0	2	LCPL	6072	
	0	1	SGT	6072	
	0	1	SSGT	6072	
ACTIVITY TOTAL:	0	6			
VMA-311, 09416					
USMC	0	2	CPL	6072	
	0	2	LCPL	6072	
	0	1	SGT	6072	
	0	1	SSGT	6072	
ACTIVITY TOTAL:	0	6			
VMA-513, 09231					
USMC	0	2	CPL	6072	
	0	2	LCPL	6072	
	0	1	SGT	6072	
	0	1	SSGT	6072	
ACTIVITY TOTAL:	0	6			
VMFA (AW)-121, 09257					
USMC	0	3	LCPL	6072	
	0	2	SGT	6072	
ACTIVITY TOTAL:	0	5			
VMFA (AW)-225, 09242					
USMC	0	3	LCPL	6072	
	0	2	SGT	6072	
ACTIVITY TOTAL:	0	5			
VMFA (AW)-242, 09668					
USMC	0	3	LCPL	6072	
	0	2	SGT	6072	
ACTIVITY TOTAL:	0	5			

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS		DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
	OFF	ENL			
VMFA-112, 08954					
USMC	0	2	LCPL	6072	
AR	0	1	CPL	6072	
VMFA-112, 08954, FY03 Increment					
SMCR	0	1	LCPL	6072	
ACTIVITY TOTAL:	0	4			
VMFA-134, 09365					
USMC	0	1	CPL	6072	
	0	1	LCPL	6072	
AR	0	1	LCPL	6072	
VMFA-134, 09365, FY03 Increment					
SMCR	0	1	LCPL	6072	
ACTIVITY TOTAL:	0	4			
VMFA-212, 09434					
USMC	0	1	CPL	6072	
	0	3	LCPL	6072	
ACTIVITY TOTAL:	0	4			
VMFA-232, 09242					
USMC	0	1	CPL	6072	
	0	3	LCPL	6072	
ACTIVITY TOTAL:	0	4			
VMFA-314, 09230					
USMC	0	1	CPL	6072	
	0	3	LCPL	6072	
ACTIVITY TOTAL:	0	4			
VMFA-323, 09235					
USMC	0	1	CPL	6072	
	0	3	LCPL	6072	
ACTIVITY TOTAL:	0	4			

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS		DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
	OFF	ENL			
VMFAT-101, 47046					
USMC	0	3	CPL	6072	
	0	9	LCPL	6072	
	0	1	SGT	6072	
ACTIVITY TOTAL:	0	13			
VMGR-152 Det A+B, 09443					
USMC	0	1	CPL	6072	
	0	1	LCPL	6072	
ACTIVITY TOTAL:	0	2			
VMGR-234, 08344					
USMC	0	1	LCPL	6072	
AR	0	1	CPL	6072	
SMCR	0	1	CPL	6072	
	0	1	LCPL	6072	
ACTIVITY TOTAL:	0	4			
VMGR-352 Det A+B, 09182					
USMC	0	1	CPL	6072	
	0	1	LCPL	6072	
ACTIVITY TOTAL:	0	2			
VMGTR-253, 57080					
USMC	0	1	CPL	6072	
	0	2	LCPL	6072	
ACTIVITY TOTAL:	0	3			
VMU-1, 31055					
USMC	0	1	CPL	6072	
	0	1	LCPL	6072	
ACTIVITY TOTAL:	0	2			

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS		DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
	OFF	ENL			
FLEET SUPPORT ACTIVITIES - USN					
ABFC FMP ALPHA, 68822					
SELRES	0	1	AS1	7606	7609
	0	1	AS2	7606	
	0	1	AS3	7606	7601
ACTIVITY TOTAL:	0	3			
ABFC FMP HOTEL, 68822					
SELRES	0	1	AS1	7606	7609
	0	1	AS2	7606	
	0	1	AS3	7606	7601
ACTIVITY TOTAL:	0	3			
AIMD Sigonella Det Rota, 44374					
ACDU	0	1	AS1	7606	
	0	1	AS2	7606	
	0	1	AS3	7606	
SELRES	0	2	AS3	7606	
ACTIVITY TOTAL:	0	5			
COMLANDCENT TH HQ Sarajevo, 46551					
ACDU	0	1	AS2	7606	
ACTIVITY TOTAL:	0	1			
NAF Washington RAIMD, 44492					
TAR	0	1	AS1	7606	
	0	1	AS2	7606	
NAF Washington RAIMD, 44492, FY03 Increment					
TAR	0	1	AS3	7606	
ACTIVITY TOTAL:	0	3			
NAS Atlanta RAIMD, 44486					
TAR	0	1	AS1	7606	7222
	0	1	AS3	7606	
ACTIVITY TOTAL:	0	2			

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS		DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
	OFF	ENL			
NAS Brunswick AIMD, 44314					
ACDU	0	1	AS3	7606	7607
	0	2	AS3	7607	7606
	0	1	ASAN	7606	7614
ACTIVITY TOTAL:	0	4			
NAS Jacksonville AIMD, 44319					
ACDU	0	2	AS2	7606	
	0	4	AS3	7606	
	0	2	ASAN	7606	
ACTIVITY TOTAL:	0	8			
NAS Keflavik AIMD, 44335					
ACDU	0	1	AS1	7606	
	0	1	AS3	7606	
ACTIVITY TOTAL:	0	2			
NAS Key West AIMD, 44320					
ACDU	0	4	AS2	7606	
ACTIVITY TOTAL:	0	4			
NAS New Orleans RAIMD, 44490					
TAR	0	1	AS2	7606	
	0	1	AS3	7606	
NAS New Orleans RAIMD, 44490, FY03 Increment					
ACDU	0	1	AS1	7606	
ACTIVITY TOTAL:	0	3			
NAS Oceana AIMD, 44327					
ACDU	0	2	AS1	7609	7606
	0	5	AS2	7606	
	0	2	AS2	7606	7607
	0	7	AS3	7606	
	0	6	ASAN	7606	
ACTIVITY TOTAL:	0	22			

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS		DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
	OFF	ENL			
NAS Sigonella AIMD, 44330					
ACDU	0	1	AS1	7606	
	0	2	AS2	7606	
	0	4	AS3	7606	
ACTIVITY TOTAL:	0	7			
NAS Willow Grove RAIMD, 44493					
TAR	0	1	AS1	7606	7609
	0	2	AS3	7606	
	0	1	AS3	7606	7601
ACTIVITY TOTAL:	0	4			
NAVAIRENGSTA Lakehurst, 48558					
ACDU	0	1	AS2	7606	
	0	1	ASAN	7606	
ACTIVITY TOTAL:	0	2			
NAVTEST WINGLANT, 39782					
ACDU	0	2	AS2	7616	7606
	0	2	AS3	7616	7606
ACTIVITY TOTAL:	0	4			
NAS Norfolk AIMD, 44325					
ACDU	0	1	AS1	7606	
	0	2	AS2	7606	
	0	2	AS3	7606	
SELRES	0	1	AS3	7606	
ACTIVITY TOTAL:	0	6			
NS Mayport AIMD, 45459					
ACDU	0	1	AS2	7606	
	0	1	ASAN	7606	
ACTIVITY TOTAL:	0	2			
NS Roosevelt Roads AIMD, 44373					
ACDU	0	1	AS2	7606	
	0	1	AS2	7606	7607
	0	2	AS3	7606	
ACTIVITY TOTAL:	0	4			

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS		DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
	OFF	ENL			
USS Abraham Lincoln CVN 72, 21297					
ACDU	0	3	AS3	7606	
	0	1	ASAN	7606	
ACTIVITY TOTAL:	0	4			
USS Dwight D. Eisenhower CVN 69, 03369					
ACDU	0	2	AS3	7606	
ACTIVITY TOTAL:	0	2			
USS Enterprise CVN 65, 03365					
ACDU	0	1	AS2	7606	
	0	3	AS3	7606	
ACTIVITY TOTAL:	0	4			
USS George Washington CVN 73, 21412					
ACDU	0	2	AS3	7606	
ACTIVITY TOTAL:	0	2			
USS Harry S. Truman CV 75, 21853					
ACDU	0	3	AS3	7606	
	0	1	ASAN	7606	
USS Harry S. Truman CV 75, 21853, FY05 Increment					
ACDU	0	1	ASAN	7606	
ACTIVITY TOTAL:	0	5			
USS John C. Stennis CVN 74, 21847					
ACDU	0	2	AS3	7606	
ACTIVITY TOTAL:	0	2			
USS John F. Kennedy CV 67, 03367					
ACDU	0	1	AS1	7606	
	0	1	AS2	7606	
	0	4	AS3	7606	
ACTIVITY TOTAL:	0	6			

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS		DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
	OFF	ENL			
USS Ronald Reagan CVN 76, 22178, FY03 Increment					
ACDU	0	2	AS3	7606	
ACTIVITY TOTAL:	0	2			
USS Theodore Roosevelt CVN 71, 21247					
ACDU	0	1	AS2	7606	
	0	3	AS3	7606	
ACTIVITY TOTAL:	0	4			
AIMD MCBH Kaneohe Bay, 44312					
ACDU	0	1	AS1	7606	
	0	1	AS2	7606	
	0	1	AS2	7606	7614
ACTIVITY TOTAL:	0	3			
COMAEWWINGPAC Det AIMD, 44328					
ACDU	0	1	AS1	7606	
	0	1	AS2	7606	
	0	1	AS3	7606	
ACTIVITY TOTAL:	0	3			
COMFLTACT Okinawa, 62254					
ACDU	0	1	AS1	7606	
	0	1	AS2	7606	
	0	1	AS3	7606	
ACTIVITY TOTAL:	0	3			
COMSEACONTROLWINGPAC Det AIMD, 44326					
ACDU	0	1	AS1	7609	7606
	0	4	AS2	7606	
	0	1	AS2	7606	7607
	0	1	AS2	7614	7606
	0	4	AS3	7606	
ACTIVITY TOTAL:	0	11			
COMSTRKFIGHTWINGPAC Det AIMD, 44321					
ACDU	0	4	AS2	7606	
	0	1	AS3	7606	
	0	1	ASAN	7606	
ACTIVITY TOTAL:	0	6			

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS		DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
	OFF	ENL			
COMVAQWINGPAC Det AIMD, 44329					
ACDU	0	1	AS1	7606	7616
	0	3	AS2	7606	
	0	1	AS2	7606	7222
	0	2	AS2	7606	7607
	0	4	AS3	7606	
	0	3	AS3	7606	7607
COMVAQWINGPAC Det AIMD, 44329, FY03 Increment					
ACDU	0	2	AS3	7606	
ACTIVITY TOTAL:	0	16			
FMP MMF CHARLIE, 68704					
ACDU	0	1	AS3	7606	7607
SELRES	0	1	AS2	7606	7607
	0	1	AS3	7606	7607
ACTIVITY TOTAL:	0	3			
NAF Atsugi AIMD, 44323					
ACDU	0	2	AS1	7606	
	0	4	AS3	7606	
ACTIVITY TOTAL:	0	6			
NAF Misawa AIMD, 44331					
ACDU	0	1	AS1	7606	7222
	0	2	AS2	7606	
	0	1	AS3	7606	
SELRES	0	2	AS3	7606	
ACTIVITY TOTAL:	0	6			
NAS JRB Fort Worth RAIMD, 44487					
TAR	0	1	AS1	7606	
	0	1	AS3	7606	
ACTIVITY TOTAL:	0	2			

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS		DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
	OFF	ENL			
Naval Support Activity Bahrain, 63005					
ACDU	0	1	AS2	7606	
Naval Support Activity Bahrain, 63005, FY03 Increment					
ACDU	0	1	AS2	7606	
ACTIVITY TOTAL:	0	2			
USS Carl Vinson CVN 70, 20993					
ACDU	0	1	AS2	7606	
	0	4	AS3	7606	
ACTIVITY TOTAL:	0	5			
USS Constellation CV 64, 03364					
ACDU	0	1	AS2	7606	
	0	2	AS3	7606	
ACTIVITY TOTAL:	0	3			
USS Kitty Hawk CV 63, 03363					
ACDU	0	3	AS3	7606	
ACTIVITY TOTAL:	0	3			
USS Nimitz CVN 68, 03368					
ACDU	0	3	AS3	7606	
ACTIVITY TOTAL:	0	3			
FLEET SUPPORT ACTIVITIES - USMC					
Blount Island Command, 32264					
USMC	0	1	GYSGT	6072	
ACTIVITY TOTAL:	0	1			
Flag and Staff Allow, U.S. Atlantic Fleet and NAVFAC, 00000					
USMC	0	1	GYSGT	6072	
ACTIVITY TOTAL:	0	1			

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS		DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
	OFF	ENL			
H&HS MCAS Beaufort, 60169					
USMC	0	1	CPL	6072	
	0	1	GYSGT	6072	
	0	1	LCPL	6072	
ACTIVITY TOTAL:	0	3			
MALS-14, 09114					
USMC	0	4	CPL	6072	
	0	3	GYSGT	6072	
	0	2	LCPL	6072	
	0	2	SSGT	6072	
ACTIVITY TOTAL:	0	11			
MALS-31, 09131					
USMC	0	4	CPL	6072	
	0	3	GYSGT	6072	
	0	2	LCPL	6072	
	0	2	SSGT	6072	
ACTIVITY TOTAL:	0	11			
MALS-42 (RW), 09513					
USMC	0	1	LCPL	6072	
AR	0	1	SSGT	6072	
SMCR	0	2	GYSGT	6072	
	0	2	LCPL	6072	
	0	5	SGT	6072	
	0	1	SSGT	6072	
ACTIVITY TOTAL:	0	10			
Marine Aviation Det, Patuxent River, 67356					
USMC	0	1	GYSGT	6072	
ACTIVITY TOTAL:	0	1			
MAW HQ, 00000					
USMC	0	1	GYSGT	6072	
ACTIVITY TOTAL:	0	1			

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS		DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
	OFF	ENL			
MC PERS Det of Navy Non-Dept, 00000, USMC	0	1	GYSGT	6072	
ACTIVITY TOTAL:	0	1			
Personnel Management Div MM, 00000 USMC	0	1	GYSGT	6072	
ACTIVITY TOTAL:	0	1			
H&HS MCAS Futenma, 63026 USMC	0	2	LCPL	6072	
	0	1	SGT	6072	
ACTIVITY TOTAL:	0	3			
H&HS MCAS Iwakuni, 62613 USMC	0	1	CPL	6072	
	0	1	GYSGT	6072	
	0	1	LCPL	6072	
ACTIVITY TOTAL:	0	3			
H&HS MCAS Miramar, 52817 USMC	0	1	CPL	6072	
	0	1	SGT	6072	
ACTIVITY TOTAL:	0	2			
H&HS MCAS Yuma, 62974 USMC	0	2	CPL	6072	
	0	4	LCPL	6072	
	0	1	SGT	6072	
ACTIVITY TOTAL:	0	7			
MALS-11, 09111 USMC	0	4	CPL	6072	
	0	3	GYSGT	6072	
	0	2	LCPL	6072	
	0	2	SSGT	6072	
ACTIVITY TOTAL:	0	11			

II.A.1.b. BILLETTS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETTS		DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
	OFF	ENL			
MALS-12, 09112					
USMC	0	4	CPL	6072	
	0	3	GYSGT	6072	
	0	2	LCPL	6072	
	0	2	SSGT	6072	
ACTIVITY TOTAL:	0	11			
MALS-13, 55585					
USMC	0	4	CPL	6072	
	0	3	GYSGT	6072	
	0	2	LCPL	6072	
	0	2	SSGT	6072	
ACTIVITY TOTAL:	0	11			
MALS-41 (FW), 67239					
USMC	0	2	LCPL	6072	
AR	0	1	CPL	6072	
SMCR	0	3	CPL	6072	
	0	3	GYSGT	6072	
	0	2	SSGT	6072	
ACTIVITY TOTAL:	0	11			
MALS-24 (-) (RW), 31947					
USMC	0	1	CPL	6072	
	0	1	GYSGT	6072	
	0	1	LCPL	6072	
	0	1	SGT	6072	
ACTIVITY TOTAL:	0	4			
MCAGCC, MWSS Augment, 29 Palms (MALS-11), 67724					
USMC	0	1	LCPL	6072	
	0	1	SSGT	6072	
ACTIVITY TOTAL:	0	2			
MCAGCC, MWSS Augment, 29 Palms (MALS-13), 67724					
USMC	0	1	SSGT	6072	
	0	1	LCPL	6072	
ACTIVITY TOTAL:	0	2			

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS		DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
	OFF	ENL			
MCAGCC, MWSS Augment, 29 Palms (MALS-16), 67724					
USMC	0	1	LCPL	6072	
	0	1	SGT	6072	
ACTIVITY TOTAL:	0	2			
MCAGCC, MWSS Augment, 29 Palms (MALS-39), 67724					
USMC	0	1	LCPL	6072	
	0	1	SGT	6072	
ACTIVITY TOTAL:	0	2			
MWSS 374 (-) (REIN), 67724					
USMC	0	1	CPL	6072	
	0	1	GYSGT	6072	
	0	1	LCPL	6072	
	0	1	SGT	6072	
ACTIVITY TOTAL:	0	4			
Site Support, Fort Worth, 48041					
AR	0	1	SSGT	6072	
ACTIVITY TOTAL:	0	1			
Mountain Warfare Training Center, Training Com., 64495					
AR	0	1	SSGT	6072	
ACTIVITY TOTAL:	0	1			
MATSG-21, 67389					
USMC	0	4	GYSGT	6072	
	0	4	SSGT	6072	
	0	4	SGT	6072	
ACTIVITY TOTAL:	0	12			

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS		DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
	OFF	ENL			
NAMTRAGRU MARCOR Personnel, 45595					
USMC	0	3	GYSGT	6072	
	0	2	SSGT	6072	
	0	20	SGT	6072	
ACTIVITY TOTAL:	0	25			
NAMTRA MARUNIT, New River, 52842					
USMC	0	2	SSGT	6072	
	0	1	SGT	6072	
ACTIVITY TOTAL:	0	12			

II.A.1.c. TOTAL BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

DESIG/ RATING	PNEC/SNEC PMOS/SMOS	PFYs		CFY03		FY04		FY05		FY06		FY07	
		OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
USMC OPERATIONAL ACTIVITIES - USMC													
CPL	6072		80		1		1		1		1		1
GYSGT	6072		8		0		0		0		0		0
LCPL	6072		215		1		1		1		1		1
SGT	6072		81		0		0		0		0		0
SSGT	6072		45		1		1		1		1		1
USMC OPERATIONAL ACTIVITIES - AR													
CPL	6072		9		0		0		0		0		0
LCPL	6072		2		0		0		0		0		0
SGT	6072		1		0		0		0		0		0
USMC OPERATIONAL ACTIVITIES - SMCR													
CPL	6072		5		0		0		0		0		0
GYSGT	6072		1		0		0		0		0		0
LCPL	6072		8		3		0		0		0		0
SGT	6072		7		0		0		0		0		0
SSGT	6072		1		0		0		0		0		0
USN FLEET SUPPORT ACTIVITIES - ACDU													
AS1	7606		10		0		0		0		0		0
AS1	7606	7222	1		0		0		0		0		0
AS1	7606	7616	1		0		0		0		0		0
AS1	7609	7606	3		0		0		0		0		0
AS2	7606		42		0		0		0		0		0
AS2	7606	7222	1		0		0		0		0		0
AS2	7606	7607	6		0		0		0		0		0
AS2	7606	7614	1		0		0		0		0		0
AS2	7614	7606	1		0		0		0		0		0
AS2	7616	7606	2		0		0		0		0		0
AS3	7606		68		0		0		0		0		0
AS3	7606	7607	5		0		0		0		0		0
AS3	7607	7606	2		0		0		0		0		0
AS3	7616	7606	2		0		0		0		0		0
ASAN	7606		13		0		1		0		0		0
ASAN	7606	7614	1		0		0		0		0		0
USN FLEET SUPPORT ACTIVITIES - TAR													
AS1	7606		2		0		0		0		0		0
AS1	7606	7222	1		0		0		0		0		0
AS1	7606	7609	1		0		0		0		0		0
AS2	7606		2		0		0		0		0		0
AS3	7606		5		1		0		0		0		0
AS3	7606	7601	1		0		0		0		0		0

II.A.1.c. TOTAL BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

DESIG/ RATING	PNEC/SNEC PMOS/SMOS		PFYs		CFY03		FY04		FY05		FY06		FY07	
			OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL		
USN FLEET SUPPORT ACTIVITIES - SELRES														
AS1	7606	7609		2		0		0		0		0		0
AS2	7606			2		0		0		0		0		0
AS2	7606	7607		1		0		0		0		0		0
AS3	7606			7		0		0		0		0		0
AS3	7606	7607		1		0		0		0		0		0
USMC FLEET SUPPORT ACTIVITIES - USMC														
CPL	6072			28		0		0		0		0		0
GYSGT	6072			34		0		0		0		0		0
LCPL	6072			26		0		0		0		0		0
SGT	6072			11		0		0		0		0		0
SSGT	6072			32		0		0		0		0		0
USMC FLEET SUPPORT ACTIVITIES - AR														
CPL	6072			1		0		0		0		0		0
SSGT	6072			3		0		0		0		0		0
USMC FLEET SUPPORT ACTIVITIES - SMCR														
CPL	6072			3		0		0		0		0		0
GYSGT	6072			5		0		0		0		0		0
LCPL	6072			2		0		0		0		0		0
SGT	6072			5		0		0		0		0		0
SSGT	6072			3		0		0		0		0		0

II.A.1.c. TOTAL BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

DESIG/ RATING	PNEC/SNEC PMOS/SMOS	PFYs OFF ENL	CFY03 OFF ENL	FY04 OFF ENL	FY05 OFF ENL	FY06 OFF ENL	FY07 OFF ENL
SUMMARY TOTALS:							
USMC OPERATIONAL ACTIVITIES - USMC							
	423		3	3	3	3	3
USMC OPERATIONAL ACTIVITIES - AR							
	12		0	0	0	0	0
USMC OPERATIONAL ACTIVITIES - SMCR							
	22		3	0	0	0	0
USN FLEET SUPPORT ACTIVITIES - ACDU							
	159		1	0	0	0	0
USN FLEET SUPPORT ACTIVITIES - TAR							
	12		1	0	0	0	0
USN FLEET SUPPORT ACTIVITIES - SELRES							
	13		0	0	0	0	0
USMC FLEET SUPPORT ACTIVITIES - USMC							
	131		0	0	0	0	0
USMC FLEET SUPPORT ACTIVITIES - AR							
	4		0	0	0	0	0
USMC FLEET SUPPORT ACTIVITIES - SMCR							
	18		0	0	0	0	0

II.A.1.c. TOTAL BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

DESIG/ RATING	PNEC/SNEC PMOS/SMOS	PFYs		CFY03		FY04		FY05		FY06		FY07	
		OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
GRAND TOTALS:													
USMC - USMC			554		3		3		3		3		3
USMC - AR			16		0		0		0		0		0
USMC - SMCR			40		3		0		0		0		0
USN - ACDU			159		1		0		0		0		0
USN - TAR			12		1		0		0		0		0
USN - SELRES			13		0		0		0		0		0

II.A.2.a. OPERATIONAL AND FLEET SUPPORT ACTIVITY DEACTIVATION SCHEDULE

SOURCE: Total Force Manpower Management System
Extract from Table of Manpower Requirements, TFS, MCCDC

DATE: November 2002
November 2002

ACTIVITY, UIC		PFYs	CFY03	FY04	FY05	FY06	FY07
OPERATIONAL ACTIVITIES - USMC							
HMM (CH-46E) (East)	00000	0	0	1	0	1	0
HMM (CH-46E) (West)	00000	0	1	0	1	0	0
TOTAL:		0	1	1	1	1	0
FLEET SUPPORT ACTIVITIES - USN							
USS Constellation CV 64	03364	0	1	0	0	0	0
TOTAL:		0	1	0	0	0	0

II.A.2.b. BILLETS TO BE DELETED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS		DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
	OFF	ENL			
OPERATIONAL ACTIVITIES - USMC					
HMM (CH-46E) (East), 00000, FY04 Increment					
USMC	0	3	CPL	6072	
	0	2	LCPL	6072	
	0	1	SSGT	6072	
HMM (CH-46E) (East), 00000, FY06 Increment					
USMC	0	3	CPL	6072	
	0	2	LCPL	6072	
	0	1	SSGT	6072	
ACTIVITY TOTAL:	0	12			
VMFA-142, 08966, FY03 Increment					
AR	0	1	LCPL	6072	
ACTIVITY TOTAL:	0	1			
HMM (CH-46E) (West), 00000, FY03 Increment					
USMC	0	3	CPL	6072	
	0	2	LCPL	6072	
	0	1	SSGT	6072	
HMM (CH-46E) (West), 00000, FY05 Increment					
USMC	0	3	CPL	6072	
	0	2	LCPL	6072	
	0	1	SSGT	6072	
HMM (CH-46E) (West), 00000, FY07 Increment					
USMC	0	3	CPL	6072	
	0	2	LCPL	6072	
	0	1	SSGT	6072	
HMM (CH-46E) (West), 00000, FY09 Increment					
USMC	0	3	CPL	6072	
	0	2	LCPL	6072	
	0	1	SSGT	6072	
ACTIVITY TOTAL:	0	24			
VMFA-112, 08954, FY03 Increment					
AR	0	1	LCPL	6072	
ACTIVITY TOTAL:	0	1			

II.A.2.b. BILLETS TO BE DELETED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS		DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
	OFF	ENL			
VMFA-134, 09365, FY03 Increment					
AR	0	1	LCPL	6072	
ACTIVITY TOTAL:	0	1			
FLEET SUPPORT ACTIVITIES - USN					
NAS New Orleans RAIMD, 44490, FY03 Increment					
TAR	0	1	AS1	7606	
ACTIVITY TOTAL:	0	1			
USS Constellation CV 64, 03364, FY03 Increment					
ACDU	0	1	AS2	7606	
	0	2	AS3	7606	
ACTIVITY TOTAL:	0	3			

II.A.2.c. TOTAL BILLETS TO BE DELETED IN OPERATIONAL AND FLEET SUPPORT ACTIVITIES

DESIG/ RATING	PNEC/SNEC PMOS/SMOS	PFYs OFF ENL	CFY03 OFF ENL	FY04 OFF ENL	FY05 OFF ENL	FY06 OFF ENL	FY07 OFF ENL
USMC OPERATIONAL ACTIVITIES - USMC							
CPL	6072	42	-3	-3	-3	-3	-3
LCPL	6072	28	-2	-2	-2	-2	-2
SSGT	6072	14	-1	-1	-1	-1	-1
USMC OPERATIONAL ACTIVITIES - AR							
LCPL	6072	0	-3	0	0	0	0
USN FLEET SUPPORT ACTIVITIES - ACDU							
AS2	7606	1	-1	0	0	0	0
AS3	7606	2	-2	0	0	0	0
USN FLEET SUPPORT ACTIVITIES - TAR							
AS1	7606	0	-1	0	0	0	0
SUMMARY TOTALS:							
USMC OPERATIONAL ACTIVITIES - USMC		84	-6	-6	-6	-6	-6
USMC OPERATIONAL ACTIVITIES - AR		0	-3	0	0	0	0
USN FLEET SUPPORT ACTIVITIES - ACDU		3	-3	0	0	0	0
USN FLEET SUPPORT ACTIVITIES - TAR		0	-1	0	0	0	0
GRAND TOTALS:							
USN - ACDU		3	-3	0	0	0	0
USN - TAR		0	-1	0	0	0	0
USMC - USMC		84	-6	-6	-6	-6	-6
USMC - AR		0	-3	0	0	0	0

II.A.3. TRAINING ACTIVITIES INSTRUCTOR AND SUPPORT BILLET REQUIREMENTS

DESIG/ RATING	PNEC/ PMOS/SMOS	SNEC/ SMOS	BILLET		CFY03		FY04		FY05		FY06		FY07	
			OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL

TRAINING ACTIVITY, LOCATION, UIC: MTU 3032 NAMTRAU Jacksonville, 39469

INSTRUCTOR BILLETS

USN

AS1	7606	9502	0	1	0	1	0	1	0	1	0	1	0	1
AS2	7606	9502	0	1	0	1	0	1	0	1	0	1	0	1

TOTAL:			0	2	0	2	0	2	0	2	0	2	0	2
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TRAINING ACTIVITY, LOCATION, UIC: MTU 3033 NAMTRAU North Island, 39476

INSTRUCTOR BILLETS

USN

AS1	7606	9502	0	1	0	1	0	1	0	1	0	1	0	1
AS2	7606	9502	0	1	0	1	0	1	0	1	0	1	0	1

TOTAL:			0	2	0	2	0	2	0	2	0	2	0	2
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II.A.4. CHARGEABLE STUDENT BILLET REQUIREMENTS

ACTIVITY, LOCATION, UIC	USN/ USMC	PFYs		CFY03		FY04		FY05		FY06		FY07	
		OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
MTU 3032 NAMTRAU Jacksonville, 39469													
	USN	0.0	5.1	0.0	5.3	0.0	5.5	0.0	5.3	0.0	5.4	0.0	5.4
	USMC	0.0	20.2	0.0	20.5	0.0	20.8	0.0	20.5	0.0	20.8	0.0	20.8
MTU 3033 NAMTRAU North Island, 39476													
	USN	0.0	3.3	0.0	3.3	0.0	3.3	0.0	3.3	0.0	3.3	0.0	3.3
	USMC	0.0	21.7	0.0	21.7	0.0	21.4	0.0	20.8	0.0	20.8	0.0	20.5
SUMMARY TOTALS:													
	USN	0.0	8.4	0.0	8.6	0.0	8.8	0.0	8.6	0.0	8.7	0.0	8.7
	USMC	0.0	41.9	0.0	42.2	0.0	42.2	0.0	41.3	0.0	41.6	0.0	41.3
GRAND TOTALS:													
		0.0	50.3	0.0	50.8	0.0	51.0	0.0	49.9	0.0	50.3	0.0	50.0

II.A.5. ANNUAL INCREMENTAL AND CUMULATIVE BILLETS

DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS	BILLET BASE	CFY03 +/- CUM	FY04 +/- CUM	FY05 +/- CUM	FY06 +/- CUM	FY07 +/- CUM
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a. OFFICER - USN Not Applicable

b. ENLISTED - USN

Fleet Support Billets ACDU and TAR

AS1	7606		12	-1	11	0	11	0	11	0	11	0	11
AS1	7606	7222	2	0	2	0	2	0	2	0	2	0	2
AS1	7606	7609	1	0	1	0	1	0	1	0	1	0	1
AS1	7606	7616	1	0	1	0	1	0	1	0	1	0	1
AS1	7609	7606	3	0	3	0	3	0	3	0	3	0	3
AS2	7606		44	-1	43	0	43	0	43	0	43	0	43
AS2	7606	7222	1	0	1	0	1	0	1	0	1	0	1
AS2	7606	7607	6	0	6	0	6	0	6	0	6	0	6
AS2	7606	7614	1	0	1	0	1	0	1	0	1	0	1
AS2	7614	7606	1	0	1	0	1	0	1	0	1	0	1
AS2	7616	7606	2	0	2	0	2	0	2	0	2	0	2
AS3	7606		76	-1	75	0	75	0	75	0	75	0	75
AS3	7606	7601	1	0	1	0	1	0	1	0	1	0	1
AS3	7606	7607	5	0	5	0	5	0	5	0	5	0	5
AS3	7607	7606	2	0	2	0	2	0	2	0	2	0	2
AS3	7616	7606	2	0	2	0	2	0	2	0	2	0	2
ASAN	7606		13	0	13	1	14	0	14	0	14	0	14
ASAN	7606	7614	1	0	1	0	1	0	1	0	1	0	1

Staff Billets ACDU and TAR

AS1	7606	9502	2	0	2	0	2	0	2	0	2	0	2
AS2	7606	9502	2	0	2	0	2	0	2	0	2	0	2

Chargeable Student Billets ACDU and TAR

9	0	9	0	9	0	9	0	9	0	9	0	9
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SELRES Billets

AS1	7606	7609	2	0	2	0	2	0	2	0	2	0	2
AS2	7606		2	0	2	0	2	0	2	0	2	0	2
AS2	7606	7607	1	0	1	0	1	0	1	0	1	0	1
AS3	7606		7	0	7	0	7	0	7	0	7	0	7
AS3	7606	7607	1	0	1	0	1	0	1	0	1	0	1

TOTAL USN ENLISTED BILLETS:

Fleet Support			174	-3	171	1	172	0	172	0	172	0	172
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II.A.5. ANNUAL INCREMENTAL AND CUMULATIVE BILLETS

DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS	BILLET BASE	CFY03 +/-	CUM	FY04 +/-	CUM	FY05 +/-	CUM	FY06 +/-	CUM	FY07 +/-	CUM
Staff			4	0	4	0	4	0	4	0	4	0	4
Chargeable Student			9	0	9	0	9	0	9	0	9	0	9
SELRES			13	0	13	0	13	0	13	0	13	0	13

c. OFFICER - USMC Not Applicable

d. ENLISTED - USMC

Operational Billets USMC and AR

CPL	6072	89	-2	87	-2	85	-2	83	-2	81	-2	79
GYSGT	6072	8	0	8	0	8	0	8	0	8	0	8
LCPL	6072	217	1	218	1	219	1	220	1	221	1	222
SGT	6072	82	0	82	0	82	0	82	0	82	0	82
SSGT	6072	45	1	46	1	47	1	48	1	49	1	50

Fleet Support Billets USMC and AR

CPL	6072	29	0	29	0	2	0	29	0	29	0	29
GYSGT	6072	34	0	34	0	34	0	34	0	34	0	34
LCPL	6072	26	0	26	0	26	0	26	0	26	0	26
SGT	6072	11	0	11	0	8	0	8	0	8	0	8
SSGT	6072	32	0	32	0	32	0	32	0	32	0	32

Chargeable Student Billets USMC and AR

42	1	43	0	43	-1	42	0	42	0	42
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SMCR Billets

CPL	6072	3	0	3	0	3	0	3	0	3	0	3
GYSGT	6072	5	0	5	0	5	0	5	0	5	0	5
LCPL	6072	2	0	2	0	2	0	2	0	2	0	2
SGT	6072	5	0	5	0	5	0	5	0	5	0	5
SSGT	6072	3	0	3	0	3	0	3	0	3	0	3

II.A.5. ANNUAL INCREMENTAL AND CUMULATIVE BILLETS

DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS	BILLET BASE	CFY03 +/-	CUM	FY04 +/-	CUM	FY05 +/-	CUM	FY06 +/-	CUM	FY07 +/-	CUM
TOTAL USMC ENLISTED BILLETS:													
Operational			441	0	441	0	459	0	441	0	441	0	441
Fleet Support			132	0	132	0	132	0	132	0	132	0	132
Chargeable Student			42	1	43	0	43	-1	42	0	42	0	42
SMCR			18	0	18	0	18	0	18	0	18	0	18

II.B. ANNUAL TRAINING INPUT REQUIREMENTS

CIN, COURSE TITLE: D-602-7005, Support Equipment Gas Turbine Intermediate Maintenance

COURSE LENGTH: 7.4 Weeks

NAVY TOUR LENGTH: 36 Months

ATTRITION FACTOR: Navy: 10% USMC: 0%

BACKOUT FACTOR: 0.15

TRAINING ACTIVITY	SOURCE	ACDU/TAR SELRES	CFY03 OFF ENL	FY04 OFF ENL	FY05 OFF ENL	FY06 OFF ENL	FY07 OFF ENL
MTU 3032 NAMTRAU Jacksonville							
	USN	ACDU		36	38	36	37
		TAR		4	4	4	4
		SELRES		1	1	1	1
		TOTAL:		41	43	41	42

CIN, COURSE TITLE: E-602-7005, Support Equipment Gas Turbine Intermediate Maintenance

COURSE LENGTH: 7.4 Weeks

NAVY TOUR LENGTH: 36 Months

ATTRITION FACTOR: Navy: 10% USMC: 0%

BACKOUT FACTOR: 0.15

TRAINING ACTIVITY	SOURCE	ACDU/TAR SELRES	CFY03 OFF ENL	FY04 OFF ENL	FY05 OFF ENL	FY06 OFF ENL	FY07 OFF ENL
MTU 3033 NAMTRAU North Island							
	USN	ACDU		24	24	24	24
		TAR		1	1	1	1
		SELRES		0	1	0	0
		TOTAL:		25	26	25	25

CIN, COURSE TITLE: D-602-7040, Support Equipment Engine/Gas Turbine and Related Systems Intermediate Maintenance

COURSE LENGTH: 15.4 Weeks

NAVY TOUR LENGTH: 36 Months

ATTRITION FACTOR: Navy: 0% USMC: 0%

BACKOUT FACTOR: 0.31

TRAINING ACTIVITY	SOURCE	ACDU/TAR SELRES	CFY03 OFF ENL	FY04 OFF ENL	FY05 OFF ENL	FY06 OFF ENL	FY07 OFF ENL
MTU 3032 NAMTRAU Jacksonville							
	USMC	USMC		68	69	68	69
		AR		2	2	2	2
		SMCR		2	2	2	2
		TOTAL:		72	73	72	73

CIN, COURSE TITLE: E-602-7040, Support Equipment Engine/Gas Turbine and Related Systems Intermediate Maintenance

COURSE LENGTH: 15.4 Weeks

NAVY TOUR LENGTH: 36 Months

ATTRITION FACTOR: Navy: 0% USMC: 0%

BACKOUT FACTOR: 0.31

TRAINING ACTIVITY	SOURCE	ACDU/TAR SELRES	CFY03 OFF ENL	FY04 OFF ENL	FY05 OFF ENL	FY06 OFF ENL	FY07 OFF ENL
MTU 3033 NAMTRAU North Island							
	USMC	USMC		72	71	70	69
		AR		2	2	1	1
		SMCR		1	2	2	2
		TOTAL:		75	75	73	72

PART III - TRAINING REQUIREMENTS

The following elements are not affected by the MSU 200NAV and, therefore, are not included in Part III of this NTSP:

II.A.2. Follow-on Training

III.A.2.b. Planned Courses

III.A.2.c. Unique Courses

III.A.3. Existing Training Phased Out

Note: A new intermediate level maintenance training course will be established for the MSU 200NAV. The new course, C-602-3XXX, *MSU 200NAV Engine and Enclosure Intermediate Maintenance Course*, will be included in the following training tracks:

- ° D/E-602-7005, Support Equipment Gas Turbine Intermediate Maintenance
- ° D/E-602-7040, Support Equipment Engine/Gas Turbine and Related Systems Intermediate Maintenance

Upon fleet introduction, the MSU 200NAV maintenance course, C-602-3XXX, will replace the GTC-85 course C-602-3211A in training tracks D/E-602-7005 and D/E-602-7040. The GTC-85 course will remain active as a stand-alone course for 24 months while the GTC-85s are retired from service. The RFT date for the new MSU 200NAV intermediate level, maintenance training course is planned for February 2005.

PART III - TRAINING REQUIREMENTS

III.A.1. INITIAL TRAINING REQUIREMENTS

COURSE TITLE: MSU 200NAV Air Start Unit Engine and Enclosure Intermediate Maintenance
COURSE DEVELOPER: Hamilton Sundstrand
COURSE INSTRUCTOR: Hamilton Sundstrand
COURSE LENGTH: 3 days (estimated)
ACTIVITY DESTINATION: AIMD, NAMTRAU

LOCATION, UIC		DATE BEGIN	STUDENTS		CIV	
			OFF	ENL		
Government Facilities	00000	10/7/02	0	6	0	INPUT
			0	0		AOB
			0	0		CHARGEABLE

COURSE TITLE: MSU 200NAV Air Start Unit Engine and Enclosure Intermediate Maintenance
COURSE DEVELOPER: Hamilton Sundstrand
COURSE INSTRUCTOR: Hamilton Sundstrand
COURSE LENGTH: 3 days (estimated)
ACTIVITY DESTINATION: NATEC

LOCATION, UIC		DATE BEGIN	STUDENTS		CIV	
			OFF	ENL		
Government Facilities	00000	12/2/03	0	0	4	INPUT
			0	0		AOB
			0	0		CHARGEABLE

III.A.2.a. EXISTING COURSES

CIN, COURSE TITLE: D-602-7005, Support Equipment Gas Turbine Intermediate Maintenance
TRAINING ACTIVITY: MTU 3032 NAMTRAU
LOCATION, UIC: NAS Jacksonville, 39469

SOURCE: USN **STUDENT CATEGORY:** ACDU - TAR

CFY03		FY04		FY05		FY06		FY07		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
	40		42		40		41		41	ATIR
	36		38		36		37		37	Output
	5.3		5.5		5.3		5.4		5.4	AOB
	5.3		5.5		5.3		5.4		5.4	Chargeable

SOURCE: USN **STUDENT CATEGORY:** SELRES

CFY03		FY04		FY05		FY06		FY07		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
	1		1		1		1		1	ATIR
	1		1		1		1		1	Output
	0.1		0.1		0.1		0.1		0.1	AOB
	0.0		0.0		0.0		0.0		0.0	Chargeable

CIN, COURSE TITLE: E-602-7005, Support Equipment Gas Turbine Intermediate Maintenance
TRAINING ACTIVITY: MTU 3033 NAMTRAU
LOCATION, UIC: NAS North Island, 39476

SOURCE: USN **STUDENT CATEGORY:** ACDU - TAR

CFY03		FY04		FY05		FY06		FY07		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
	25		25		25		25		25	ATIR
	23		23		23		23		23	Output
	3.3		3.3		3.3		3.3		3.3	AOB
	3.3		3.3		3.3		3.3		3.3	Chargeable

SOURCE: USN **STUDENT CATEGORY:** SELRES

CFY03		FY04		FY05		FY06		FY07		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
	0		1		0		1		0	ATIR
	0		1		0		1		0	Output
	0.0		0.1		0.0		0.1		0.0	AOB
	0.0		0.0		0.0		0.0		0.0	Chargeable

III.A.2.a. EXISTING COURSES

CIN, COURSE TITLE: D-602-7040, Support Equipment Engine/Gas Turbine and Related Systems Intermediate Maintenance
TRAINING ACTIVITY: MTU 3032 NAMTRAU
LOCATION, UIC: NAS Jacksonville, 39469

SOURCE: USMC **STUDENT CATEGORY:** USMC - AR

CFY03		FY04		FY05		FY06		FY07		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
	70		71		70		71		71	ATIR
	70		71		70		71		71	Output
	20.5		20.8		20.5		20.8		20.8	AOB
	20.5		20.8		20.5		20.8		20.8	Chargeable

SOURCE: USMC **STUDENT CATEGORY:** SMCR

CFY03		FY04		FY05		FY06		FY07		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
	2		2		2		2		2	ATIR
	2		2		2		2		2	Output
	0.6		0.6		0.6		0.6		0.6	AOB
	0.0		0.0		0.0		0.0		0.0	Chargeable

CIN, COURSE TITLE: E-602-7040, Support Equipment Engine/Gas Turbine and Related Systems Intermediate Maintenance
TRAINING ACTIVITY: MTU 3033 NAMTRAU
LOCATION, UIC: NAS North Island, 39476

SOURCE: USMC **STUDENT CATEGORY:** USMC - AR

CFY03		FY04		FY05		FY06		FY07		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
	74		73		71		71		70	ATIR
	74		73		71		71		70	Output
	21.7		21.4		20.8		20.8		20.5	AOB
	21.7		21.4		20.8		20.8		20.5	Chargeable

SOURCE: USMC **STUDENT CATEGORY:** SMCR

CFY03		FY04		FY05		FY06		FY07		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
	1		2		2		2		2	ATIR
	1		2		2		2		2	Output
	0.3		0.6		0.6		0.6		0.6	AOB
	0.0		0.0		0.0		0.0		0.0	Chargeable

PART IV - TRAINING LOGISTICS SUPPORT REQUIREMENTS

The following elements are not affected by the MSU 200NAV, and, therefore, are not included in Part IV of this NTSP:

IV.C. Facility Requirements

IV.C.1. Facility Requirements Summary (Space/Support) by Activity

IV.C.2. Facility Requirements Detailed by Activity and Course

IV.C.3. Facility Project Summary by Program

IV.A. TRAINING HARDWARE

IV.A.1. TTE / GPTE / SPTE / ST / GPETE / SPETE

CIN, COURSE TITLE: C-602-3211, GTC-85 -72 Engine and Enclosures Intermediate Maintenance Course (Track D-602-7005 and D-602-7040)

TRAINING ACTIVITY: MTU 3032 NAMTRAU

LOCATION, UIC: NAS Jacksonville, 39469

ITEM NO.	EQUIPMENT / TYPE OR RANGE OF REPAIR PARTS	QTY REQD	DATE REQD	GFE CFE	STATUS
TTE					
001	Tractor, Aircraft Tow, A/S32A-31A	2	Jun 89	GFE	Onboard
002	Jet Air Start Unit, 1369AS100-1	1	Jun 89	GFE	Onboard
003	Gas Turbine Engine, 376880	3	Jun 89	GFE	Onboard
004	Relay, Electromagnetic, 692148	1	Jun 89	GFE	Onboard
005	Relay, Electromagnetic, AN3308-2	1	Jun 89	GFE	Onboard
006	Trailer, Air Start, 1203AS100-1	3	Jun 89	GFE	Onboard
007	Cart, Handling, Gas Turbine Engine, 1147AS900-1	1	Jun 89	GFE	Onboard
008	Thermostat, Flow Control, 107996	4	Jun 89	GFE	Onboard
010	Enclosure, Gas Turbine, 370690-1	2	Jun 89	GFE	Onboard
ST					
001	Wrench, Torque, TE12A	1	Jun 89	GFE	Onboard
001	Cabinet, Tool, Mobile, KR656	1	Jun 89	GFE	Onboard
002	Caliper, Micrometer, Outside, T230RX	1	Jun 89	GFE	Onboard
003	Tool Box, Portable, KRA62C	1	Jun 89	GFE	Onboard
004	Adapter, Stand, Maintenance, 281326	2	Jun 89	GFE	Onboard
005	Adapter, Stand, Maintenance, 281327	2	Jun 89	GFE	Onboard
013	Sealer-Tool Banding, C001	1	Jun 89	GFE	Onboard
014	Nut, Plain, Hexagon, C040	1	Jun 89	GFE	Onboard
015	Torque Wrench Inch Pound, A-A-2411	1	Jun 89	GFE	Onboard
089	Tool Box, 3033-10	1	Jun 89	GFE	Onboard
090	Tool Box, 3033-11	1	Jun 89	GFE	Onboard
GPETE					
002	Cable Assembly, Electrical, 281115	1	Jun 89	GFE	Onboard
003	Multimeter, 77/BN	2	Jun 89	GFE	Onboard
005	Analyzer, Gas Turbine, 281069	1	Jun 89	GFE	Onboard

IV.A.1. TTE / GPTE / SPTE / ST / GPETE / SPETE

CIN, COURSE TITLE: C-602-3212, GTCP-100-82 Engine and Enclosures Intermediate Maintenance Course
(Track D-602-7005 and D-602-7040)

TRAINING ACTIVITY: MTU 3032 NAMTRAU

LOCATION, UIC: NAS Jacksonville 39469

ITEM NO.	EQUIPMENT / TYPE OR RANGE OF REPAIR PARTS	QTY REQD	DATE REQD	GFE CFE	STATUS
TTE					
0011	Thermostat, 129672-1	4	Sep 95	GFE	Onboard
0012	Pneumatic Shutoff Valve, 122238-1-1	2	Sep 95	GFE	Onboard
0013	Modulating and Shut-Off Valve, 379017-7	2	Sep 95	GFE	Onboard
0014	Fuel Control Assembly, 3609070-1	2	Sep 95	GFE	Onboard
0015	Atomizer Assembly, 693105	4	Sep 95	GFE	Onboard
0016	Shut-Off and Drain Solenoid Valve Assembly, 3609063-1	2	Sep 95	GFE	Onboard
0017	Rotary Oil Pump, 373880-6	2	Sep 95	GFE	Onboard
0018	Electrical Starter, 692356-3	2	Sep 95	GFE	Onboard
0019	Multiple Centrifugal, 3601090-3	2	Sep 95	GFE	Onboard
0020	Valve, Shut-Off, 320362-2	2	Sep 95	GFE	Onboard
0021	Relay Chassis Assembly, 64A90F160	2	Sep 95	GFE	Onboard
0022	Blow-down Valve Assembly, 1386AS225-1	2	Sep 95	GFE	Onboard
0023	Oil Cooler Assembly, 1100AS236-1	2	Sep 95	GFE	Onboard
0024	Heat Exchanger, 179310-2-1	2	Sep 95	GFE	Onboard
0025	5:1 Shut-Off Valve, 12222586-1	2	Sep 95	GFE	Onboard
0026	3.6:1 Shut-Off Valve, 392234-1	2	Sep 95	GFE	Onboard
0027	Pump and Motor Assembly, GC1000BA-26	2	Sep 95	GFE	Onboard
0028	Relay Assembly Control, 375040	2	Sep 95	GFE	Onboard
0029	Ignition Unit, 694012	2	Sep 95	GFE	Onboard
0030	Switch Assembly Oil Pressure, 75427-1	2	Sep 95	GFE	Onboard
0031	Switch Assembly Pressure, 377384	2	Sep 95	GFE	Onboard
0032	Pneumatic Starter Duct Assembly, 5SE00932-1	2	Sep 95	GFE	Onboard
0033	Coupling Half, Quick Disconnect, MS17834	4	Sep 95	GFE	Onboard
0034	Adapter, Straight, MS17835	4	Sep 95	GFE	Onboard
0035	Coupling Half, 7950-93-1	4	Sep 95	GFE	Onboard
0036	Adapter, Straight, MS17833	4	Sep 95	GFE	Onboard
0037	Ring, Handling, MS14271	4	Sep 95	GFE	Onboard
0038	Duct, Air, M22706-D-30	4	Sep 95	GFE	Onboard
0039	Scuff, Cover, M22706-S-30	4	Sep 95	GFE	Onboard
040	Adapter, Hoisting Engine, 281269	2	Sep 95	GFE	Onboard
041	Mount, Gas Turbine Engine, 281264	2	Sep 95	GFE	Onboard
042	Mount, Gas Turbine, 281265	2	Sep 95	GFE	Onboard
043	Stand, Maintenance, 1147AS900-1	2	Sep 95	GFE	Onboard
044	Jet Aircraft Start Unit, 1386AS100-1	2	Sep 95	GFE	Onboard
045	Jet Air Start Unit, 1100AS100-4	2	Sep 95	GFE	Onboard
046	Aircraft Towing Tractor, 3337AS100-1	2	Sep 95	GFE	Onboard
047	Engine, Gas Turbine, 380214-1	5	Sep 95	GFE	Onboard
ST					
0002	Pneumatic Duct Banding Tool, C001	4	Sep 95	GFE	Onboard
0003	Pneumatic Duct Banding NUT, C040	4	Sep 95	GFE	Onboard
0004	Torque Wrench Inch Pound, A-A-2411	4	Sep 95	GFE	Onboard
0033	Brush Battery Terminal, 1052SP	2	Sep 95	GFE	Onboard

IV.A.1. TTE / GPTE / SPTE / ST / GPETE / SPETE

0034	Pliers, Needle Nose, 94ACP	4	May 99	GFE	Onboard
0035	Pliers, HL112P	4	Sep 95	GFE	Onboard
0036	Wrench, Set Hex, AW1020K	2	Sep 95	GFE	Onboard
0037	Wrench Set Socket 3/8 Inch Drive, 213-SFS	2	Sep 95	GFE	Onboard
0038	Hammer, Ball-peen 12 ounce, BP12B	2	Sep 95	GFE	Onboard
0039	Screwdriver Set Cross-tip, SDDZ50	2	Sep 95	GFE	Onboard
0040	Mallet, Rawhide 40 ounce, GGG-H-33	2	Sep 95	GFE	Onboard
0041	Hacksaw, HS8A	2	Sep 95	GFE	Onboard
0042	Screw Extractor Set, XX10	2	Sep 95	GFE	Onboard
0043	Scriber, Machinist, 2975	4	Sep 95	GFE	Onboard
0044	Gun, Grease, 1142	2	Sep 95	GFE	Onboard
0045	Battery Filler, W-B-177	2	Sep 95	GFE	Onboard
0046	Flash Light, MIL-F-3747	2	Sep 95	GFE	Onboard
0047	Retriever Magnetic, PT28D	2	Sep 95	GFE	Onboard
0048	Mallet, Rubber, BF620	2	Sep 95	GFE	Onboard
0049	Screwdriver Set, SDDX80	2	Sep 95	GFE	Onboard
0050	Socket Set 1/4 Inch Drive, 134TMPB	2	Sep 95	GFE	Onboard
0051	Socket Set 3/8 Inch Drive, 218FPB	2	Sep 95	GFE	Onboard
0052	Wrench Set Combo Standard Length, OEX714K	2	Sep 95	GFE	Onboard
0053	Gauge, Thickness, FB325A	2	Sep 95	GFE	Onboard
0054	Chisel, Set, PPC715A	2	Sep 95	GFE	Onboard
0055	Pliers, Slip Joint, 46CP	4	Sep 95	GFE	Onboard
0056	Wire Stripper, Crimper, 1E	2	Sep 95	GFE	Onboard
0057	Wrench Set Combo Short, OES709K	2	Sep 95	GFE	Onboard
0058	Vise Grip Pliers, VP10R	4	Sep 95	GFE	Onboard
0059	Soft Face Mallet, BH232	2	Sep 95	GFE	Onboard
0060	Mirror Inspection, CF143A	2	Sep 95	GFE	Onboard
061	Tool Box, Mobile, KR656	2	Sep 95	GFE	Onboard
062	Tool Box, Mobile, KRA62C	2	Sep 95	GFE	Onboard

GPETE

0001	Multimeter, 77/BN	4	Sep 95	GFE	Onboard
0005	Gage, Test 0-60 PSI, 1084P	4	Sep 95	GFE	Onboard

CIN, COURSE TITLE: C-602-3XXX, MSU 200NAV Engine Enclosure Intermediate Maintenance (Track D-602-7005 and D-602-7040)

TRAINING ACTIVITY: MTU 3032 NAMTRAU

LOCATION, UIC: NAS Jacksonville, 39469

ITEM NO.	EQUIPMENT / TYPE OR RANGE OF REPAIR PARTS	QTY REQD	DATE REQD	GFE CFE	STATUS
TTE					
01	Unit MSU 200NAV (Sea Version)	1	May 04	GFE	Pending
02	MSU 200NAV (Shore Version)	1	Nov 03	GFE	Pending
03	Aircraft Towing Tractor, 3337AS100-1	2	Mar 03	GFE	Pending
04	All other TTE To Be Determined (TBD) pending development of MSU 200NAV Maintenance Manual in February 2004	TBD	Feb 04	GFE	Pending
GPTE					
01	All GPTE To Be Determined (TBD) pending development of MSU 200NAV Maintenance Manual in February 2004	TBD	Feb 04	GFE	Pending

IV.A.1. TTE / GPTE / SPTE / ST / GPETE / SPETE

SPTE

05	All other SPTE To Be Determined (TBD) pending development of MSU 200NAV Maintenance Manual in February 2004	TBD	Feb 04	GFE	Pending
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ST

02	Pneumatic Duct Banding Tool, C001	4	Feb 04	GFE	Pending
03	Pneumatic Duct Banding Nut, C040	4	Feb 04	GFE	Pending
04	Torque Wrench Inch Pound, A-A-2411	4	Feb 04	GFE	Pending
05	All other ST To Be Determined (TBD) pending development of the MSU 200NAV Maintenance Manual in February 2004	TBD	Feb 04	GFE	Pending

GPETE

01	Multimeter, 87/BN	4	Feb 04	GFE	Pending
02	All other GPETE To Be Determined (TBD) pending development of MSU200NAV Maintenance Manual in February 2004	TBD	Feb 04	GFE	Pending

SPETE

01	All SPETE To Be Determined (TBD) pending development of MSU 200NAV Maintenance Manual in February 2004	TBD	Feb 04	GFE	Pending
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CIN, COURSE TITLE: C-602-3211, GTC-85 -72 Engine and Enclosures Intermediate Maintenance Course (Track E-602-7005 and E-602-7040)

TRAINING ACTIVITY: MTU 3033 NAMTRAU

LOCATION, UIC: NAS North Island, 39476

ITEM NO.	EQUIPMENT / TYPE OR RANGE OF REPAIR PARTS	QTY REQD	DATE REQD	GFE CFE	STATUS
TTE					
001	Tractor, Aircraft Tow, A/S32A-31A	2	Jun 89	GFE	Onboard
002	Jet Air Start Unit, 1369AS100-1	1	Jun 89	GFE	Onboard
003	Gas Turbine Engine, 376880	3	Jun 89	GFE	Onboard
004	Relay, Electromagnetic, 692148	1	Jun 89	GFE	Onboard
005	Relay, Electromagnetic, AN3308-2	1	Jun 89	GFE	Onboard
006	Trailer, Air Start, 1203AS100-1	3	Jun 89	GFE	Onboard
007	Cart, Handling, Gas Turbine Engine, 1147AS900-1	1	Jun 89	GFE	Onboard
008	Thermostat, Flow Control, 107996	4	Jun 89	GFE	Onboard
010	Enclosure, Gas Turbine, 370690-1	2	Jun 89	GFE	Onboard
ST					
001	Wrench, Torque, TE12A	1	Jun 89	GFE	Onboard
001	Cabinet, Tool, Mobile, KR656	1	Jun 89	GFE	Onboard
002	Caliper, Micrometer, Outside, T230RX	1	Jun 89	GFE	Onboard
003	Tool Box, Portable, KRA62C	1	Jun 89	GFE	Onboard
004	Adapter, Stand, Maintenance, 281326	2	Jun 89	GFE	Onboard
005	Adapter, Stand, Maintenance, 281327	2	Jun 89	GFE	Onboard
013	Sealer-Tool Banding, C001	1	Jun 89	GFE	Onboard
014	Nut, Plain, Hexagon, C040	1	Jun 89	GFE	Onboard
015	Torque Wrench Inch Pound, A-A-2411	1	Jun 89	GFE	Onboard
089	Tool Box, 3033-10	1	Jun 89	GFE	Onboard
090	Tool Box, 3033-11	1	Jun 89	GFE	Onboard

IV.A.1. TTE / GPTE / SPTE / ST / GPETE / SPETE**GPETE**

002	Cable Assembly, Electrical, 281115	1	Jun 89	GFE	Onboard
003	Multimeter, 77/BN	2	Jun 89	GFE	Onboard
005	Analyzer, Gas Turbine, 281069	1	Jun 89	GFE	Onboard

CIN, COURSE TITLE: C-602-3212, GTCP-100-82 Engine and Enclosures Intermediate Maintenance Course
(Track E-602-7005 and E-602-7040)

TRAINING ACTIVITY: MTU 3033 NAMTRAU

LOCATION, UIC: NAS North Island, 39476

ITEM NO.	EQUIPMENT / TYPE OR RANGE OF REPAIR PARTS	QTY REQD	DATE REQD	GFE CFE	STATUS
TTE					
0011	Thermostat, 129672-1	4	Sep 95	GFE	Onboard
0012	Pneumatic Shutoff Valve, 122238-1-1	2	Sep 95	GFE	Onboard
0013	Modulating and Shut-Off Valve, 379017-7	2	Sep 95	GFE	Onboard
0014	Fuel Control Assembly, 3609070-1	2	Sep 95	GFE	Onboard
0015	Atomizer Assembly, 693105	4	Sep 95	GFE	Onboard
0016	Shut-Off and Drain Solenoid Valve Assembly, 3609063-1	2	Sep 95	GFE	Onboard
0017	Rotary Oil Pump, 373880-6	2	Sep 95	GFE	Onboard
0018	Electrical Starter, 692356-3	2	Sep 95	GFE	Onboard
0019	Multiple Centrifugal, 3601090-3	2	Sep 95	GFE	Onboard
0020	Valve, Shut-Off, 320362-2	2	Sep 95	GFE	Onboard
0021	Relay Chassis Assembly, 64A90F160	2	Sep 95	GFE	Onboard
0022	Blow-down Valve Assembly, 1386AS225-1	2	Sep 95	GFE	Onboard
0023	Oil Cooler Assembly, 1100AS236-1	2	Sep 95	GFE	Onboard
0024	Heat Exchanger, 179310-2-1	2	Sep 95	GFE	Onboard
0025	5:1 Shut-Off Valve, 12222586-1	2	Sep 95	GFE	Onboard
0026	3.6:1 Shut-Off Valve, 392234-1	2	Sep 95	GFE	Onboard
0027	Pump and Motor Assembly, GC1000BA-26	2	Sep 95	GFE	Onboard
0028	Relay Assembly Control, 375040	2	Sep 95	GFE	Onboard
0029	Ignition Unit, 694012	2	Sep 95	GFE	Onboard
0030	Switch Assembly Oil Pressure, 75427-1	2	Sep 95	GFE	Onboard
0031	Switch Assembly Pressure, 377384	2	Sep 95	GFE	Onboard
0032	Pneumatic Starter Duct Assembly, 5SE00932-1	2	Sep 95	GFE	Onboard
0033	Coupling Half, Quick Disconnect, MS17834	4	Sep 95	GFE	Onboard
0034	Adapter, Straight, MS17835	4	Sep 95	GFE	Onboard
0035	Coupling Half, 7950-93-1	4	Sep 95	GFE	Onboard
0036	Adapter, Straight, MS17833	4	Sep 95	GFE	Onboard
0037	Ring, Handling, MS14271	4	Sep 95	GFE	Onboard
0038	Duct, Air, M22706-D-30	4	Sep 95	GFE	Onboard
0039	Scuff, Cover, M22706-S-30	4	Sep 95	GFE	Onboard
040	Adapter, Hoisting Engine, 281269	2	Sep 95	GFE	Onboard
041	Mount, Gas Turbine Engine, 281264	2	Sep 95	GFE	Onboard
042	Mount, Gas Turbine, 281265	2	Sep 95	GFE	Onboard
043	Stand, Maintenance, 1147AS900-1	2	Sep 95	GFE	Onboard
044	Jet Aircraft Start Unit, 1386AS100-1	2	Sep 95	GFE	Onboard
045	Jet Air Start Unit, 1100AS100-4	2	Sep 95	GFE	Onboard
046	Aircraft Towing Tractor, 3337AS100-1	2	Sep 95	GFE	Onboard
047	Engine, Gas Turbine, 380214-1	5	Sep 95	GFE	Onboard

IV.A.1. TTE / GPTE / SPTE / ST / GPETE / SPETE

ST

0002	Pneumatic Duct Banding Tool, C001	4	Sep 95	GFE	Onboard
0003	Pneumatic Duct Banding Nut, C040	4	Sep 95	GFE	Onboard
0004	Torque Wrench Inch Pound, A-A-2411	4	Sep 95	GFE	Onboard
0033	Brush Battery Terminal, 1052SP	2	Sep 95	GFE	Onboard
0034	Pliers, Needle Nose, 94ACP	4	May 99	GFE	Onboard
0035	Pliers, HL112P	4	Sep 95	GFE	Onboard
0036	Wrench, Set Hex, AW1020K	2	Sep 95	GFE	Onboard
0037	Wrench Set Socket 3/8 Inch Drive, 213-SFS	2	Sep 95	GFE	Onboard
0038	Hammer, Ball-peen 12 ounce, BP12B	2	Sep 95	GFE	Onboard
0039	Screwdriver Set Cross-tip, SDDZ50	2	Sep 95	GFE	Onboard
0040	Mallet, Rawhide 40 ounce, GGG-H-33	2	Sep 95	GFE	Onboard
0041	Hacksaw, HS8A	2	Sep 95	GFE	Onboard
0042	Screw Extractor Set, XX10	2	Sep 95	GFE	Onboard
0043	Scriber, Machinist, 2975	4	Sep 95	GFE	Onboard
0044	Gun, Grease, 1142	2	Sep 95	GFE	Onboard
0045	Battery Filler, W-B-177	2	Sep 95	GFE	Onboard
0046	Flash Light, MIL-F-3747	2	Sep 95	GFE	Onboard
0047	Retriever Magnetic, PT28D	2	Sep 95	GFE	Onboard
0048	Mallet, Rubber, BF620	2	Sep 95	GFE	Onboard
0049	Screwdriver Set, SDDX80	2	Sep 95	GFE	Onboard
0050	Socket Set 1/4 Inch Drive, 134TMPB	2	Sep 95	GFE	Onboard
0051	Socket Set 3/8 Inch Drive, 218FPB	2	Sep 95	GFE	Onboard
0052	Wrench Set Combo Standard Length, OEX714K	2	Sep 95	GFE	Onboard
0053	Gauge, Thickness, FB325A	2	Sep 95	GFE	Onboard
0054	Chisel, Set, PPC715A	2	Sep 95	GFE	Onboard
0055	Pliers, Slip Joint, 46CP	4	Sep 95	GFE	Onboard
0056	Wire Stripper, Crimper, 1E	2	Sep 95	GFE	Onboard
0057	Wrench Set Combo Short, OES709K	2	Sep 95	GFE	Onboard
0058	Vise Grip Pliers, VP10R	4	Sep 95	GFE	Onboard
0059	Soft Face Mallet, BH232	2	Sep 95	GFE	Onboard
0060	Mirror Inspection, CF143A	2	Sep 95	GFE	Onboard
061	Tool Box, Mobile, KR656	2	Sep 95	GFE	Onboard
062	Tool Box, Mobile, KRA62C	2	Sep 95	GFE	Onboard

GPETE

0001	Multimeter, 77/BN	4	Sep 95	GFE	Onboard
0005	Gage, Test 0-60 PSI, 1084P	4	Sep 95	GFE	Onboard

CIN, COURSE TITLE: C-602-3XXX, MSU 200NAV Engine Enclosure Intermediate Maintenance (Track E-602-7005 and E-602-7040)

TRAINING ACTIVITY: MTU 3033 NAMTRAU

LOCATION, UIC: NAS North Island, 39476

ITEM NO.	EQUIPMENT / TYPE OR RANGE OF REPAIR PARTS	QTY REQD	DATE REQD	GFE CFE	STATUS
TTE					
01	Unit MSU 200NAV (Sea Version)	1	May 04	GFE	Pending
02	MSU 200NAV (Shore Version)	1	Nov 03	GFE	Pending
03	Aircraft Towing Tractor, 3337AS100-1	2	Mar 03	GFE	Pending
04	All other TTE To Be Determined (TBD) pending development of MSU 200NAV Maintenance Manual in February 2004	TBD	Feb 04	GFE	Pending

IV.A.1. TTE / GPTE / SPTE / ST / GPETE / SPETE

GPTE

01	All GPTE To Be Determined (TBD) pending development of MSU 200NAV Maintenance Manual in February 2004	TBD	Feb 04	GFE	Pending
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SPTE

05	All SPTE To Be Determined (TBD) pending development of MSU 200NAV Maintenance Manual in February 2004	TBD	Feb 04	GFE	Pending
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ST

02	Pneumatic Duct Banding Tool, C001	4	Feb 04	GFE	Pending
03	Pneumatic Duct Banding Nut, C040	4	Feb 04	GFE	Pending
04	Torque Wrench Inch Pound, A-A-2411	4	Feb 04	GFE	Pending
05	All other ST To Be Determined (TBD) pending development of the MSU 200NAV Maintenance Manual in February 2004	TBD	Feb 04	GFE	Pending

GPETE

01	Multimeter, 87/BN	4	Feb 04	GFE	Pending
02	All other GPETE To Be Determined (TBD) pending development of MSU200NAV Maintenance Manual in February 2004	TBD	Feb 04	GFE	Pending

SPETE

01	All SPETE To Be Determined (TBD) pending development of MSU 200NAV Maintenance Manual in February 2004	TBD	Feb 04	GFE	Pending
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IV.A.2. TRAINING DEVICES

DEVICE: Engine GTC 85-72 (Cutaway)
DESCRIPTION: This item is a GTC-85-72 engine disassembled. It is used as show and tell of internal components in the classroom. (This is not a Cutaway).

MANUFACTURER: P/N 376880A
CONTRACT NUMBER: Unknown
TEE STATUS: Not Required

TRAINING ACTIVITY: MTU 3032 NAMTRAU
LOCATION, UIC : NAS Jacksonville, 39469

QTY REQD	DATE REQD	RFT DATE	STATUS	COURSES SUPPORTED
1	Jun 89	Jun 89	Onboard	C-602-3211 (Track D-602-7005 and D-602-7040)

TRAINING ACTIVITY: MTU 3033 NAMTRAU
LOCATION, UIC : NAS North Island, 39476

QTY REQD	DATE REQD	RFT DATE	STATUS	COURSES SUPPORTED
1	Jun 89	Jun 89	Onboard	C-602-3211 (Track E-602-7005 and E-602-7040)

DEVICE: Engine, GTCP-100-82 Cutaway
DESCRIPTION: The GTCP-100-82 Cutaway is the complete Gas Turbine Engine with sections cut out of its enclosure to reveal the internal components of the unit. The cutaway identifies with color code the air flow, fuel flow, and oil flow passages through the engine. This model is used to demonstrate the internal function of the engine and accessories to the student.

MANUFACTURER: Local
CONTRACT NUMBER: Unknown
TEE STATUS: Not required

TRAINING ACTIVITY: MTU 3032 NAMTRAU
LOCATION, UIC : NAS Jacksonville, 39469

QTY REQD	DATE REQD	RFT DATE	STATUS	COURSES SUPPORTED
2	Sep 95	Sep 95	Onboard	C-602-3212 (Track D-602-7005 and D-602-7040)

TRAINING ACTIVITY: MTU 3033 NAMTRAU
LOCATION, UIC : NAS North Island, 39476

QTY REQD	DATE REQD	RFT DATE	STATUS	COURSES SUPPORTED
2	Sep 95	Sep 95	Onboard	C-602-3212 (Track E-602-7005 and E-602-7040)

IV.A.2. TRAINING DEVICES

DEVICE: GTC-85 Cutaway
DESCRIPTION: The GTC-85 Cutaway is the complete Gas Turbine Engine with sections cut out of its enclosure to reveal the internal components of the unit. The cutaway identifies with color code the air flow, fuel flow, and oil flow passages through the engine. This model is used to demonstrate the internal function of the engine and accessories to the student.

MANUFACTURER: P/N 376400A
CONTRACT NUMBER: Unknown
TEE STATUS: Not Required

TRAINING ACTIVITY: MTU 3032 NAMTRAU
LOCATION, UIC : NAS Jacksonville, 39469

QTY REQD	DATE REQD	RFT DATE	STATUS	COURSES SUPPORTED
1	Jun 89	Jun 89	Onboard	C-602-3211 (Track D-602-7005 and D-602-7040)

TRAINING ACTIVITY: MTU 3033 NAMTRAU
LOCATION, UIC : NAS North Island, 39476

QTY REQD	DATE REQD	RFT DATE	STATUS	COURSES SUPPORTED
1	Jun 89	Jun 89	Onboard	C-602-3211 (Track E-602-7005 and E-602-7040)

DEVICE: Pump and Control
DESCRIPTION: This is the actual Fuel Control for the GTC-85-72 Engine. It is used to demonstrate disassembly and adjustment of the pneumatic and centrifugal governor to the student.

MANUFACTURER: P/N 371688-37
CONTRACT NUMBER: Unknown
TEE STATUS: Not Required

TRAINING ACTIVITY: MTU 3032 NAMTRAU
LOCATION, UIC : NAS Jacksonville, 39469

QTY REQD	DATE REQD	RFT DATE	STATUS	COURSES SUPPORTED
4	Jun 89	Jun 89	Onboard	C-602-3211 (Track D-602-7005 and D-602-7040)

TRAINING ACTIVITY: MTU 3033 NAMTRAU
LOCATION, UIC : NAS North Island, 39476

QTY REQD	DATE REQD	RFT DATE	STATUS	COURSES SUPPORTED
1	Jun 89	Jun 89	Onboard	C-602-3211 (Track E-602-7005 and E-602-7040)

IV.A.2. TRAINING DEVICES

DEVICE: Engine MSU 200NAV (Cutaway)
DESCRIPTION: This is planned to be a model mock-up of the complete MSU 200NAV Gas Turbine Engine with sections cut out of its enclosure to reveal the internal components of the unit. The cutaway will identify with color code the air flow, fuel flow, and oil flow passages through the engine. This model will be used to demonstrate the internal function of the engine and accessories to the student.

Note: A viable alternative to the cutaway model would be to use a three dimensional, computer aided graphic that dissects the engine and shows the various flow circuits through the engine. This method of instruction is currently being used in various courses throughout Naval aviation maintenance training. Graphics created for use in NAMTRA courses must meet standards specified in AMTCS Conventions and Standards in accordance with the Navy Training System Plan N88-NTSP-A-50-9907/D of June 2001.

MANUFACTURER: TBD
CONTRACT NUMBER: TBD
TEE STATUS: Pending

TRAINING ACTIVITY: MTU 3032 NAMTRAU
LOCATION, UIC : NAS Jacksonville, 39469

QTY REQD	DATE REQD	RFT DATE	STATUS	COURSES SUPPORTED
TBD	Feb 04	Feb 05	Pending	C-602-3XXX (Track D-602-7005 and D-602-7040)

TRAINING ACTIVITY: MTU 3033 NAMTRAU
LOCATION, UIC : NAS North Island, 39476

QTY REQD	DATE REQD	RFT DATE	STATUS	COURSES SUPPORTED
TBD	Feb 04	Feb 05	Pending	C-602-3XXX (Track E-602-7005 and E-602-7040)

IV.B COURSEWARE REQUIREMENTS

IV.B.1. TRAINING SERVICES

COURSE/TYPE OF TRAINING	SCHOOL LOCATION, UIC	NO. OF PERSONNEL	MAN WEEKS REQUIRED	DATE BEGIN
MSU 200NAV Air Start Unit Engine and Enclosure Intermediate Maintenance	Government Facilities NAS TBD	6	0.6	Dec 03
MSU 200NAV Air Start Unit Engine and Enclosure Intermediate Maintenance	Government Facilities NAS TBD	4	0.6	Dec 03

IV.B.2. CURRICULA MATERIALS AND TRAINING AIDS

CIN, COURSE TITLE: C-602-3211, GTC-85 -72 Engine and Enclosures Intermediate Maintenance Course
(Track D-602-7005 and D-602-7040)

TRAINING ACTIVITY: MTU 3032 NAMTRAU

LOCATION, UIC: NAS Jacksonville, 39469

TYPES OF MATERIAL OR AID	QTY REQD	DATE REQD	STATUS
Trainee Guide C-602-3211A	13	Jun 89	Onboard
Transparency GTC85-48KA100-5001, OPNAV 4790/51	1	Jun 89	Onboard
Transparency GTC85-48KA100-5002, OPNAV 4790/52	1	Jun 89	Onboard
Transparency GTC85-48KA100-5003, OPNAV 4790/29	1	Jun 89	Onboard
Transparency GTC85-48KA100-5004, Gas Turbine Engine	1	Jun 89	Onboard
Transparency GTC85-48KA100-5005, Electrical Wiring Schematic	1	Jun 89	Onboard
Transparency GTC85-48KA100-5006, Instrument Panel	1	Jun 89	Onboard
Transparency GTC85-48KA100-5007, Electrical System Operation	1	Jun 89	Onboard
Transparency GTC85-48KA110-5001, Air Flow Operation	1	Jun 89	Onboard
Transparency GTC85-48KA120-5001, Turbine Air Flow Operation	1	Jun 89	Onboard
Transparency GTC85-48KA130-5001, Accessory Housing	1	Jun 89	Onboard
Transparency GTC85-48KA140-5001, Fuel System Operation	1	Jun 89	Onboard
Transparency GTC85-48KA140-5002, Fuel Control Unit	1	Jun 89	Onboard
Transparency GTC85-48KA150-5001, Dual Orifice Atomizer	1	Jun 89	Onboard
Transparency GTC85-48KA170-5001, Lubrication System	1	Jun 89	Onboard
Transparency GTC85-48KA170-5002, Oil Pump Assembly	1	Jun 89	Onboard
Transparency GTC85-48KA180-5001, Thermostatic Temperature Control Valve	1	Jun 89	Onboard
Transparency GTC85-48KA1GO-5001, Oil Pressure Switch	1	Jun 89	Onboard
Transparency GTC85-48KA1HO-5001, Temperature Indicator System	1	Jun 89	Onboard
Transparency GTC85-48KA1KO-5001, Differential Pressure Regulator	1	Jun 89	Onboard
Transparency GTC85-48KA1MO-5001, Acceleration Over-Temperature Thermostat	1	Jun 89	Onboard
Transparency GTC85-48KA1NO-5001, Unloading Air Shutoff Valve	1	Jun 89	Onboard
Transparency GTC85-48KA1NO-5002, Bleed Air System Operation	1	Jun 89	Onboard
Transparency GTC85-48KA1PO-5001, Acceleration Stabilizer Solenoid Valve	1	Jun 89	Onboard
Introductory Automated Electronic Classroom (IAEC) P/N 943XXX-XXXX-XX	1	FY03	Pending

CIN, COURSE TITLE: C-602-3212, GTCP-100-82 Engine and Enclosures Intermediate Maintenance Course
(Track D-602-7005 and D-602-7040)

TRAINING ACTIVITY: MTU 3032 NAMTRAU

LOCATION, UIC: NAS Jacksonville, 39469

TYPES OF MATERIAL OR AID	QTY REQD	DATE REQD	STATUS
Trainee Guide C-602-3212A	13	Sep 95	Onboard
Transparency C-602-3212 5001, SE Preoperational Record	1	Sep 95	Onboard
Transparency A/M47A-4 16ACO 5001, Jet Aircraft Air Start Unit A/M47A-4	1	Sep 95	Onboard
Transparency A/M47A-4 16ACO 5002, Upper and Lower Control Panel Assemblies	1	Sep 95	Onboard
Transparency A/M47A-4 16ACO 5003, Relay and Chassis Assembly	1	Sep 95	Onboard
Transparency A/M47A-4 16ACO 5004, DC Enclosure Assembly	1	Sep 95	Onboard
Transparency A/M47A-4 16ACO 5005, Shutoff Valve 5:1	1	Sep 95	Onboard
Transparency A/M47A-4 16ACO 5006, Pressure Regulator Shutoff Valve 3.6:1	1	Sep 95	Onboard
Transparency A/M47A-4 16ACO 5007, A/M47A-4 16ACO 5007, A/M47A-4 Pneumatic	1	Sep 95	Onboard
Transparency A/M47A-4 16ACO 5008, AC Enclosure Assembly	1	Sep 95	Onboard
Transparency A/S47A-1 16AAO 5001, GTE (GTCP-100) Tractor Mounted Enclosure	1	Sep 95	Onboard
Transparency A/S47A-1 16AAO 5002, Enclosure Components	1	Sep 95	Onboard
Transparency A/S47A-1 16AAO 5003, Control Panel	1	Sep 95	Onboard
Transparency C-602-3212 5002, SE Custody and Maintenance History Record PG. 1	1	Sep 95	Onboard

IV.B.2. CURRICULA MATERIALS AND TRAINING AIDS

Transparency C-602-3212 5003, SE Custody and Maintenance History Record PG. 2	1	Sep 95	Onboard
Transparency C-602-3212 5004, SE Custody and Maintenance History Record PG. 3	1	Sep 95	Onboard
Transparency C-602-3212 5005, The Bernoulli Principle	1	Sep 95	Onboard
Transparency GTCP-100 48KA400 5001, Main Engine Sections	1	Sep 95	Onboard
Transparency GTCP-100 48KA400 5002, External Component Location (Front View)	1	Sep 95	Onboard
Transparency GTCP-100 48KA400 5003, Compressor Section	1	Sep 95	Onboard
Transparency GTCP-100 48KA400 5004, Engine Air Flow Schematic	1	Sep 95	Onboard
Transparency GTCP-100 48KA400 5005, Gas Turbine Assembly	1	Sep 95	Onboard
Transparency GTCP-100 48KA400 5006, Turbine Wheel Rotating Assembly	1	Sep 95	Onboard
Transparency GTCP-100 48KA400 5007, Radial Nozzle Rotating and Support Assembly	1	Sep 95	Onboard
Transparency GTCP-100 48KA400 5008, Oil Pressure Switch	1	Sep 95	Onboard
Transparency GTCP-100 48KA400 5009, Genotor Positive Displacement Oil Pump	1	Sep 95	Onboard
Transparency GTCP-100 48KA400 5010, Lubrication System Flow Diagram	1	Sep 95	Onboard
Transparency GTCP-100 48KA400 5011, Fuel Shutoff Drain Solenoid Valve Assembly	1	Sep 95	Onboard
Transparency GTCP-100 48KA400 5012, Fuel Atomizer Assembly	1	Sep 95	Onboard
Transparency GTCP-100 48KA400 5013, Pneumatic Thermostat	1	Sep 95	Onboard
Transparency GTCP-100 48KA400 5014, Inspection of Combustion Liner Assembly	1	Sep 95	Onboard
Transparency GTCP-100 48KA400 5015, Combustion Chamber	1	Sep 95	Onboard
Transparency GTCP-100 48KA400 5016, Fuel System Flow Diagram	1	Sep 95	Onboard
Transparency GTCP-100 48KA400 5017, Temperature Indicating System	1	Sep 95	Onboard
Transparency GTCP-100 48KA400 5018, Centrifugal Switch Assembly	1	Sep 95	Onboard
Transparency GTCP-100 48KA400 5019, Hydro-pneumatic Load Control Valve Assembly	1	Sep 95	Onboard
Transparency GTCP-100 48KA400 5020, Pneumatic Starter Duct Assembly	1	Sep 95	Onboard
Wall Chart A/M47A-4 16ACO 5009, A/M47A-4 Jet Aircraft Start Unit Electrical Schematic	1	Sep 95	Onboard
Wall Chart A/M47A-4 16ACO 5010, A/M47A-4 Jet Aircraft Start Unit Electrical Schematic	1	Sep 95	Onboard
Wall Chart A/M47A-4 16ACO 5011, A/M47A-4 Jet Aircraft Start Unit Electrical Schematic	1	Sep 95	Onboard
Wall Chart A/S47A-1 16AAO 5004, A/S47A-1 Enclosure Electrical Schematic	1	Sep 95	Onboard
Wall Chart GTCP-100 48KA400 5021, GTCP-100-82 Electrical Wiring Diagram	1	Sep 95	Onboard
Introductory Automated Electronic Classroom (IAEC) P/N 943XXX-XXXX-XX	1	FY03	Pending

CIN, COURSE TITLE: C-602-3XXX, MSU 200NAV Engine Enclosure Intermediate Maintenance (Track D-602-7005 and D-602-7040)

TRAINING ACTIVITY: MTU 3032 NAMTRAU

LOCATION, UIC: NAS Jacksonville, 39469

TYPES OF MATERIAL OR AID	QTY REQD	DATE REQD	STATUS
To Be Determined (TBD) pending the development of the MSU 200NAV Maintenance Manual in February 2004	TBD	Feb 04	Pending

CIN, COURSE TITLE: C-602-3211, GTC-85 -72 Engine and Enclosures Intermediate Maintenance Course (Track E-602-7005 and E-602-7040)

TRAINING ACTIVITY: MTU 3033 NAMTRAU

LOCATION, UIC: NAS North Island, 39476

TYPES OF MATERIAL OR AID	QTY REQD	DATE REQD	STATUS
Trainee Guide C-602-3211A	13	Jun 89	Onboard
Transparency GTC85-48KA100-5001, OPNAV 4790/51	1	Jun 89	Onboard
Transparency GTC85-48KA100-5002, OPNAV 4790/52	1	Jun 89	Onboard
Transparency GTC85-48KA100-5003, OPNAV 4790/29	1	Jun 89	Onboard
Transparency GTC85-48KA100-5004, Gas Turbine Engine	1	Jun 89	Onboard
Transparency GTC85-48KA100-5005, Electrical Wiring Schematic	1	Jun 89	Onboard
Transparency GTC85-48KA100-5006, Instrument Panel	1	Jun 89	Onboard
Transparency GTC85-48KA100-5007, Electrical System Operation	1	Jun 89	Onboard

IV.B.2. CURRICULA MATERIALS AND TRAINING AIDS

Transparency GTC85-48KA110-5001, Air Flow Operation	1	Jun 89	Onboard
Transparency Gtc85-48KA120-5001, Turbine Air Flow Operation	1	Jun 89	Onboard
Transparency GTC85-48KA130-5001, Accessory Housing	1	Jun 89	Onboard
Transparency GTC85-48KA140-5001, Fuel System Operation	1	Jun 89	Onboard
Transparency GTC85-48KA140-5002, Fuel Control Unit	1	Jun 89	Onboard
Transparency GTC85-48KA150-5001, Dual Orifice Atomizer	1	Jun 89	Onboard
Transparency GTC85-48KA170-5001, Lubrication System	1	Jun 89	Onboard
Transparency GTC85-48KA170-5002, Oil Pump Assembly	1	Jun 89	Onboard
Transparency GTC85-48KA180-5001, Thermostatic Temperature Control Valve	1	Jun 89	Onboard
Transparency GTC85-48KA1GO-5001, Oil Pressure Switch	1	Jun 89	Onboard
Transparency GTC85-48KA1HO-5001, Temperature Indicator System	1	Jun 89	Onboard
Transparency GTC85-48KA1KO-5001, Differential Pressure Regulator	1	Jun 89	Onboard
Transparency GTC85-48KA1MO-5001, Acceleration Over-Temperature Thermostat	1	Jun 89	Onboard
Transparency GTC85-48KA1NO-5001, Unloading Air Shutoff Valve	1	Jun 89	Onboard
Transparency GTC85-48KA1NO-5002, Bleed Air System Operation	1	Jun 89	Onboard
Transparency GTC85-48KA1PO-5001, Acceleration Stabilizer Solenoid Valve	1	Jun 89	Onboard
Introductory Automated Electronic Classroom (IAEC) P/N 943XXX-XXXX-XX	1	FY03	Pending

CIN, COURSE TITLE: C-602-3212, GTCP-100-82 Engine and Enclosures Intermediate Maintenance Course
(Track E-602-7005 and E-602-7040)

TRAINING ACTIVITY: MTU 3033 NAMTRAU

LOCATION, UIC: NAS North Island, 39476

TYPES OF MATERIAL OR AID	QTY REQD	DATE REQD	STATUS
Trainee Guide C-602-3212A	13	Sep 95	Onboard
Transparency C-602-3212 5001, SE Preoperational Record	1	Sep 95	Onboard
Transparency A/M47A-4 16ACO 5001, Jet Aircraft Air Start Unit A/M47A-4	1	Sep 95	Onboard
Transparency A/M47A-4 16ACO 5002, Upper and Lower Control Panel Assemblies	1	Sep 95	Onboard
Transparency A/M47A-4 16ACO 5003, Relay and Chassis Assembly	1	Sep 95	Onboard
Transparency A/M47A-4 16ACO 5004, DC Enclosure Assembly	1	Sep 95	Onboard
Transparency A/M47A-4 16ACO 5005, Shutoff Valve 5:1	1	Sep 95	Onboard
Transparency A/M47A-4 16ACO 5006, Pressure Regulator Shutoff Valve 3.6:1	1	Sep 95	Onboard
Transparency A/M47A-4 16ACO 5007, A/M47A-4 16ACO 5007, A/M47A-4 Pneumatic	1	Sep 95	Onboard
Transparency A/M47A-4 16ACO 5008, AC Enclosure Assembly	1	Sep 95	Onboard
Transparency A/S47A-1 16AAO 5001, GTE (GTCP-100) Tractor Mounted Enclosure	1	Sep 95	Onboard
Transparency A/S47A-1 16AAO 5002, Enclosure Components	1	Sep 95	Onboard
Transparency A/S47A-1 16AAO 5003, Control Panel	1	Sep 95	Onboard
Transparency C-602-3212 5002, SE Custody and Maintenance History Record PG. 1	1	Sep 95	Onboard
Transparency C-602-3212 5003, SE Custody and Maintenance History Record PG. 2	1	Sep 95	Onboard
Transparency C-602-3212 5004, SE Custody and Maintenance History Record PG. 3	1	Sep 95	Onboard
Transparency C-602-3212 5005, The Bernoulli Principle	1	Sep 95	Onboard
Transparency GTCP-100 48KA400 5001, Main Engine Sections	1	Sep 95	Onboard
Transparency GTCP-100 48KA400 5002, External Component Location (Front View)	1	Sep 95	Onboard
Transparency GTCP-100 48KA400 5003, Compressor Section	1	Sep 95	Onboard
Transparency GTCP-100 48KA400 5004, Engine Air Flow Schematic	1	Sep 95	Onboard
Transparency GTCP-100 48KA400 5005, Gas Turbine Assembly	1	Sep 95	Onboard
Transparency GTCP-100 48KA400 5006, Turbine Wheel Rotating Assembly	1	Sep 95	Onboard
Transparency GTCP-100 48KA400 5007, Radial Nozzle Rotating and Support Assembly	1	Sep 95	Onboard
Transparency GTCP-100 48KA400 5008, Oil Pressure Switch	1	Sep 95	Onboard
Transparency GTCP-100 48KA400 5009, Genotor Positive Displacement Oil Pump	1	Sep 95	Onboard
Transparency GTCP-100 48KA400 5010, Lubrication System Flow Diagram	1	Sep 95	Onboard
Transparency GTCP-100 48KA400 5011, Fuel Shutoff Drain Solenoid Valve Assembly	1	Sep 95	Onboard
Transparency GTCP-100 48KA400 5012, Fuel Atomizer Assembly	1	Sep 95	Onboard

IV.B.2. CURRICULA MATERIALS AND TRAINING AIDS

Transparency GTCP-100 48KA400 5013, Pneumatic Thermostat	1	Sep 95	Onboard
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Transparency GTCP-100 48KA400 5014, Inspection of Combustion Liner Assembly	1	Sep 95	Onboard
Transparency GTCP-100 48KA400 5015, Combustion Chamber	1	Sep 95	Onboard
Transparency GTCP-100 48KA400 5016, Fuel System Flow Diagram	1	Sep 95	Onboard
Transparency GTCP-100 48KA400 5017, Temperature Indicating System	1	Sep 95	Onboard
Transparency GTCP-100 48KA400 5018, Centrifugal Switch Assembly	1	Sep 95	Onboard
Transparency GTCP-100 48KA400 5019, Hydro-pneumatic Load Control Valve Assembly	1	Sep 95	Onboard
Transparency GTCP-100 48KA400 5020, Pneumatic Starter Duct Assembly	1	Sep 95	Onboard
Wall Chart A/M47A-4 16ACO 5009, A/M47A-4 Jet Aircraft Start Unit Electrical Schematic	1	Sep 95	Onboard
Wall Chart A/M47A-4 16ACO 5010, A/M47A-4 Jet Aircraft Start Unit Electrical Schematic	1	Sep 95	Onboard
Wall Chart A/M47A-4 16ACO 5011, A/M47A-4 Jet Aircraft Start Unit Electrical Schematic	1	Sep 95	Onboard
Wall Chart A/S47A-1 16AAO 5004, A/S47A-1 Enclosure Electrical Schematic	1	Sep 95	Onboard
Wall Chart GTCP-100 48KA400 5021, GTCP-100-82 Electrical Wiring Diagram	1	Sep 95	Onboard
Introductory Automated Electronic Classroom (IAEC) P/N 943XXX-XXXX-XX	1	FY03	Pending

CIN, COURSE TITLE: C-602-3XXX, MSU 200NAV Engine Enclosure Intermediate Maintenance (Track E-602-7005 and E-602-7040)

TRAINING ACTIVITY: MTU 3033 NAMTRAU

LOCATION, UIC: NAS North Island, 39476

TYPES OF MATERIAL OR AID	QTY REQD	DATE REQD	STATUS
To Be Determined (TBD) pending the development of the MSU 200NAV Maintenance Manual in February 2004	TBD	Feb 04	Pending

IV.B.3. TECHNICAL MANUALS

CIN, COURSE TITLE: C-602-3211, GTC-85 -72 Engine and Enclosures Intermediate Maintenance Course
(Track D-602-7005 and D-602-7040)

TRAINING ACTIVITY: MTU 3032 NAMTRAU

LOCATION, UIC : NAS Jacksonville, 39469

TECHNICAL MANUAL NUMBER / TITLE	MEDIUM	QTY REQD	DATE REQD	STATUS
NAVAIR 00-80T-96 U.S. Navy Support Equipment, Common, Basic Handling Safety Manual	Hard copy	13	Jun 89	Onboard
NAVAIR 03-105BC-31 Illustrated Parts Breakdown, Pneumatic Power Gas Turbine Engine	Hard copy	13	Jun 89	Onboard
NAVAIR 15-01-500 Technical Manual, Organizational, Intermediate and Depot Maintenance, Preservation of Naval Aircraft	Hard copy	13	Jun 89	Onboard
NAVAIR 16-1-8.1 Aeronautical Support Equipment Work Unit Code Manual	Hard copy	13	Jun 89	Onboard
NAVAIR 16-1-8.2 Aeronautical Support Equipment Work Unit Code Manual	Hard copy	13	Jun 89	Onboard
NAVAIR 16-1-8.3 Aeronautical Support Equipment Work Unit Code Manual	Hard copy	13	Jun 89	Onboard
NAVAIR 17-1-125 Technical Manual, Maintenance Instructions, Organizational and Intermediate, Ground Support Equipment Cleaning and Corrosion Control	Hard copy	13	Jun 89	Onboard
NAVAIR 19-105B-12 Technical Manual, Operation and Maintenance Instruction, Organizational, Intermediate, Pneumatic Power Gas Turbine Engine	Hard copy	13	Jun 89	Onboard
NAVAIR 19-105B-49 Technical Manual, Operation and Maintenance Instruction with IPB, Organizational, Intermediate and Depot, Gas Turbine Enclosure (GTC-85)	Hard copy	13	Jun 89	Onboard
NAVAIR 19-105B-57 Technical Manual, Operation and Maintenance Instructions with IPB, Jet Aircraft Start Unit (A/M47A-3)	Hard copy	13	Jun 89	Onboard
NAVAIR 19-600-27-6-1 Preoperational Maintenance Requirement Cards, Trailer Mounted Container Enclosed Pneumatic Power Turbine	Hard copy	13	Jun 89	Onboard

IV.B.3. TECHNICAL MANUALS

NAVAIR 19-600-27-6-2 Periodic Maintenance Requirement Cards, Turbine Engine GTC-85-72/76 Trailer Mounted Container Enclosed Pneumatic Power Turbine Engine	Hard copy	13	Jun 89	Onboard
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CIN, COURSE TITLE: C-602-3212, GTCP-100-82 Engine and Enclosures Intermediate Maintenance Course
(Track D-602-7005 and D-602-7040)

TRAINING ACTIVITY: MTU 3032 NAMTRAU

LOCATION, UIC : NAS Jacksonville, 39469

TECHNICAL MANUAL NUMBER / TITLE	MEDIUM	QTY REQD	DATE REQD	STATUS
NAVAIR 15-01-500 Technical Manual Organizational, Intermediate, and Depot Maintenance, Preservation of Naval Aircraft	Hard copy	13	Sep 95	Onboard
NAVAIR 16-1-8.1.1 Aeronautical Support Equipment Work Unit Code Manual	Hard copy	13	Sep 95	Onboard
NAVAIR 16-1-8.1.2 Aeronautical Support Equipment Work Unit Code Manual	Hard copy	13	Sep 95	Onboard
NAVAIR 16-2-8.1.3 Aeronautical Support Equipment Work Unit Code Manual	Hard copy	13	Sep 95	Onboard
NAVAIR 17-1-125 Technical Manual, Maintenance Instruction, Organizational Intermediate Ground Support Equipment Cleaning and Corrosion Control	Hard copy	13	Sep 95	Onboard
NAVAIR 19-105B-56 Technical Manual, Maintenance Instruction with Illustrated Parts Breakdown (Intermediate) Pneumatic Starter Duct Assembly	Hard copy	13	Sep 95	Onboard
NAVAIR 19-105B-59 Technical Manual, Operation and Intermediate Maintenance Instruction with Illustrated Parts Breakdown, Jet Aircraft Start Unit A/M47A-4	Hard copy	13	Sep 95	Onboard
NAVAIR 19-105B-60 Technical Manual, Operation and Intermediate Maintenance Instruction with Illustrated Parts Breakdown, Jet Aircraft Start Unit A/S47A-1	Hard copy	13	Sep 95	Onboard
NAVAIR 19-600-215-6-1 Preoperational Check List, GTE (GTCP-100) Tractor Mounted Enclosure A/S47A-1	Hard copy	13	Sep 95	Onboard
NAVAIR 19-600-215-6-2 Technical Manual, Periodic Maintenance Requirements, GTE (GTCP 100) Tractor Mounted Enclosure A/S47A-1	Hard copy	13	Sep 95	Onboard

IV.B.3. TECHNICAL MANUALS

NAVAIR 19-600-217-6-1 Preoperational Check List, Aircraft Start Unit A/S47A-1	Hard copy	13	Sep 95	Onboard
NAVAIR 19-600-217-6-2 Technical Manual, Periodic Maintenance Requirements, Aircraft Start Unit A/M47A-4	Hard copy	13	Sep 95	Onboard
NAVAIR A1-580AB-IPB-400 Technical Manual, Operation and Maintenance Instruction Organizational Intermediate and Depot Pneumatic Gas Turbine Engine	Hard copy	13	Sep 95	Onboard
NAVAIR A1-580AB-MMI-200 Technical Manual, Operation and Maintenance Instruction Organizational and Intermediate, Pneumatic Power Gas Turbine Engines	Hard copy	13	Sep 95	Onboard
OPNAV 4790/29 Aeronautical Equipment Service Record	Hard copy	13	Sep 95	Onboard
OPNAV 4790/52 Support Equipment Preoperational Record	Hard copy	13	Sep 95	Onboard
OPNAVINST 4790.2 series Naval Aviation Maintenance Program	Hard copy	13	Sep 98	Onboard
OPNAVINST 5100.19 Safety Instructions (NAVOSH)	Hard copy	13	Sep 95	Onboard

CIN, COURSE TITLE: C-602-3XXX, MSU 200NAV Engine Enclosure Intermediate Maintenance (Track D-602-7005 and D-602-7040)

TRAINING ACTIVITY: MTU 3032 NAMTRAU

LOCATION, UIC : NAS Jacksonville, 39469

TECHNICAL MANUAL NUMBER / TITLE	MEDIUM	QTY REQD	DATE REQD	STATUS
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Note: All Technical Manuals for the MSU 200NAV are pending development in February 2004.

NAVAIR 00-80T-96 U.S. Navy Support Equipment, Common, Basic Handling Safety Manual	Hard copy	13	Jun 89	Onboard
NAVAIR 15-01-500 Technical Manual, Organizational, Intermediate, and Depot Maintenance, Preservation of Naval Aircraft	Hard copy	13	Feb 04	Pending
NAVAIR 16-1-8.1.1 Aeronautical Support Equipment Work Unit Code Manual	Hard copy	13	Feb 04	Pending
NAVAIR 16-1-8.1.2 Aeronautical Support Equipment Work Unit Code Manual	Hard copy	13	Feb 04	Pending

IV.B.3. TECHNICAL MANUALS

NAVAIR 16-2-8.1.3 Aeronautical Support Equipment Work Unit Code Manual	Hard copy	13	Feb 04	Pending
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NAVAIR 17-1-125 Technical Manual, Maintenance Instruction, Organizational, Intermediate Ground Support Equipment Cleaning and Corrosion Control	Hard copy	13	Feb 04	Pending
NAVAIR 19-105B-62 Technical Manual, Operation and Maintenance Instruction, Organizational and Intermediate, Air Start Unit MSU 200NAV	Hard copy	13	Feb 04	Pending
NAVAIR 19-600-306-6-1 Preoperational Maintenance Requirement Cards MSU 200NAV	Hard copy	13	Feb 04	Pending
NAVAIR 19-600-306-6-2 Periodic Maintenance Requirement Cards MSU 200 NAV	Hard copy	13	Feb 04	Pending
OPNAV 4790.2 series Naval Aviation Maintenance Program	Hard copy	13	Feb 04	Pending
OPNAV 4790/29 Aeronautical Equipment Service Record	Hard copy	13	Feb 04	Pending
OPNAV 4790/52 Support Equipment Preoperational Record	Hard copy	13	Feb 04	Pending
OPNAV 5100.19 Safety Instruction (NAVOSH)	Hard copy	13	Feb 04	Pending
NAVAIR 19-40-521 Tow Tractor Manual	Hard copy	13	Feb 04	Pending
OPNAV 4790/51 Support Equipment Custody and Maintenance Record	Hard copy	13	Feb 04	Pending

CIN, COURSE TITLE: C-602-3211, GTC-85 -72 Engine and Enclosures Intermediate Maintenance Course
(Track E-602-7005 and E-602-7040)

TRAINING ACTIVITY: MTU 3033 NAMTRAU

LOCATION, UIC : NAS North Island, 39476

TECHNICAL MANUAL NUMBER / TITLE	MEDIUM	QTY REQD	DATE REQD	STATUS
NAVAIR 00-80T-96 U.S. Navy Support Equipment, Common, Basic Handling Safety Manual	Hard copy	13	Jun 89	Onboard
NAVAIR 03-105BC-31 Illustrated Parts Breakdown, Pneumatic Power Gas Turbine Engine	Hard copy	13	Jun 89	Onboard

IV.B.3. TECHNICAL MANUALS

NAVAIR 15-01-500 Technical Manual, Organizational, Intermediate and Depot Maintenance, Preservation of Naval Aircraft	Hard copy	13	Jun 89	Onboard
NAVAIR 16-1-8.1 Aeronautical Support Equipment Work Unit Code Manual	Hard copy	13	Jun 89	Onboard
NAVAIR 16-1-8.2 Aeronautical Support Equipment Work Unit Code Manual	Hard copy	13	Jun 89	Onboard
NAVAIR 16-1-8.3 Aeronautical Support Equipment Work Unit Code Manual	Hard copy	13	Jun 89	Onboard
NAVAIR 17-1-125 Technical Manual, Maintenance Instructions, Organizational and Intermediate, Ground Support Equipment Cleaning and Corrosion Control	Hard copy	13	Jun 89	Onboard
NAVAIR 19-105B-12 Technical Manual, Operation and Maintenance Instruction, Organizational, Intermediate, Pneumatic Power Gas Turbine Engine	Hard copy	13	Jun 89	Onboard
NAVAIR 19-105B-49 Technical Manual, Operation and Maintenance Instruction with IPB, Organizational, Intermediate and Depot, Gas Turbine Enclosure (GTC-85)	Hard copy	13	Jun 89	Onboard
NAVAIR 19-105B-57 Technical Manual, Operation and Maintenance Instructions with IPB, Jet Aircraft Start Unit (A/M47A-3)	Hard copy	13	Jun 89	Onboard
NAVAIR 19-600-27-6-1 Preoperational Maintenance Requirement Cards, Trailer Mounted Container Enclosed Pneumatic Power Turbine	Hard copy	13	Jun 89	Onboard
NAVAIR 19-600-27-6-2 Periodic Maintenance Requirement Cards, Turbine Engine GTC-85-72/76 Trailer Mounted Container Enclosed Pneumatic Power Turbine Engine	Hard copy	13	Jun 89	Onboard

CIN, COURSE TITLE: C-602-3212, GTCP-100-82 Engine and Enclosures Intermediate Maintenance Course
(Track E-602-7005 and E-602-7040)

TRAINING ACTIVITY: MTU 3033 NAMTRAU

LOCATION, UIC : NAS North Island, 39476

TECHNICAL MANUAL NUMBER / TITLE	MEDIUM	QTY REQD	DATE REQD	STATUS
NAVAIR 15-01-500 Technical Manual Organizational, Intermediate, and Depot Maintenance, Preservation of Naval Aircraft	Hard copy	13	Sep 95	Onboard

IV.B.3. TECHNICAL MANUALS

NAVAIR 16-1-8.1.1 Aeronautical Support Equipment Work Unit Code Manual	Hard copy	13	Sep 95	Onboard
NAVAIR 16-1-8.1.2 Aeronautical Support Equipment Work Unit Code Manual	Hard copy	13	Sep 95	Onboard
NAVAIR 16-2-8.1.3 Aeronautical Support Equipment Work Unit Code Manual	Hard copy	13	Sep 95	Onboard
NAVAIR 17-1-125 Technical Manual, Maintenance Instruction, Organizational Intermediate Ground Support Equipment Cleaning and Corrosion Control	Hard copy	13	Sep 95	Onboard
NAVAIR 19-105B-56 Technical Manual, Maintenance Instruction with Illustrated Parts Breakdown (Intermediate) Pneumatic Starter Duct Assembly	Hard copy	13	Sep 95	Onboard
NAVAIR 19-105B-59 Technical Manual, Operation and Intermediate Maintenance Instruction with Illustrated Parts Breakdown, Jet Aircraft Start Unit A/M47A-4	Hard copy	13	Sep 95	Onboard
NAVAIR 19-105B-60 Technical Manual, Operation and Intermediate Maintenance Instruction with Illustrated Parts Breakdown, Jet Aircraft Start Unit A/S47A-1	Hard copy	13	Sep 95	Onboard
NAVAIR 19-600-215-6-1 Preoperational Check List, GTE (GTCP-100) Tractor Mounted Enclosure A/S47A-1	Hard copy	13	Sep 95	Onboard
NAVAIR 19-600-215-6-2 Technical Manual, Periodic Maintenance Requirements, GTE (GTCP 100) Tractor Mounted Enclosure A/S47A-1	Hard copy	13	Sep 95	Onboard
NAVAIR 19-600-217-6-1 Preoperational Check List, Aircraft Start Unit A/S47A-1	Hard copy	13	Sep 95	Onboard
NAVAIR 19-600-217-6-2 Technical Manual, Periodic Maintenance Requirements, Aircraft Start Unit A/M47A-4	Hard copy	13	Sep 95	Onboard
NAVAIR A1-580AB-IPB-400 Technical Manual, Operation and Maintenance Instruction Organizational Intermediate and Depot Pneumatic Gas Turbine Engine	Hard copy	13	Sep 95	Onboard

IV.B.3. TECHNICAL MANUALS

NAVAIR A1-580AB-MMI-200 Technical Manual, Operation and Maintenance Instruction Organizational and Intermediate, Pneumatic Power Gas Turbine Engines	Hard copy	13	Sep 95	Onboard
OPNAV 4790/29 Aeronautical Equipment Service Record	Hard copy	13	Sep 95	Onboard
OPNAV 4790/52 Support Equipment Preoperational Record	Hard copy	13	Sep 95	Onboard
OPNAVINST 4790.2 series Naval Aviation Maintenance Program	Hard copy	13	Sep 98	Onboard
OPNAVINST 5100.19 Safety Instructions (NAVOSH)	Hard copy	13	Sep 95	Onboard

CIN, COURSE TITLE: C-602-3XXX, MSU 200NAV Engine Enclosure Intermediate Maintenance (Track E-602-7005 and E-602-7040)

TRAINING ACTIVITY: MTU 3033 NAMTRAU

LOCATION, UIC : NAS North Island, 39476

TECHNICAL MANUAL NUMBER / TITLE	MEDIUM	QTY REQD	DATE REQD	STATUS
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Note: All Technical Manuals for the MSU 200NAV are pending development in February 2004.

NAVAIR 00-80T-96 U.S. Navy Support Equipment, Common, Basic Handling Safety Manual	Hard copy	13	Jun 89	Onboard
NAVAIR 15-01-500 Technical Manual, Organizational, Intermediate, and Depot Maintenance, Preservation of Naval Aircraft	Hard copy	13	Feb 04	Pending
NAVAIR 16-1-8.1.1 Aeronautical Support Equipment Work Unit Code Manual	Hard copy	13	Feb 04	Pending
NAVAIR 16-1-8.1.2 Aeronautical Support Equipment Work Unit Code Manual	Hard copy	13	Feb 04	Pending
NAVAIR 16-2-8.1.3 Aeronautical Support Equipment Work Unit Code Manual	Hard copy	13	Feb 04	Pending
NAVAIR 17-1-125 Technical Manual, Maintenance Instruction, Organizational, Intermediate Ground Support Equipment Cleaning and Corrosion Control	Hard copy	13	Feb 04	Pending
NAVAIR 19-105B-62 Technical Manual, Operation and Maintenance Instruction, Organizational and Intermediate, Air Start Unit MSU 200NAV	Hard copy	13	Feb 04	Pending

IV.B.3. TECHNICAL MANUALS

NAVAIR 19-600-306-6-1 Preoperational Maintenance Requirement Cards MSU 200NAV	Hard copy	13	Feb 04	Pending
NAVAIR 19-600-306-6-2 Periodic Maintenance Requirement Cards MSU 200 NAV	Hard copy	13	Feb 04	Pending
OPNAV 4790.2 series Naval Aviation Maintenance Program	Hard copy	13	Feb 04	Pending
OPNAV 4790/29 Aeronautical Equipment Service Record	Hard copy	13	Feb 04	Pending
OPNAV 4790/52 Support Equipment Preoperational Record	Hard copy	13	Feb 04	Pending
OPNAV 5100.19 Safety Instruction (NAVOSH)	Hard copy	13	Feb 04	Pending
NAVAIR 19-40-521 Tow Tractor Manual	Hard copy	13	Feb 04	Pending
OPNAV 4790/51 Support Equipment Custody and Maintenance Record	Hard copy	13	Feb 04	Pending

PART V - MPT MILESTONES

COG CODE	MPT MILESTONES	DATE	STATUS
DA	Approved NTP for GTCP100-82 Support Equipment Gas Turbine Engine	Sep 93	Completed
DA	Conducted Maintenance Training Readiness Review (MTRR)	Dec 01	Completed
TSA	Conducted Initial Training for DT personnel	FY01	Completed
DA	Developed Maintenance Plan (Draft) M-LI-2002-7	Jan 02	Completed
TSA	Prepared Draft MSU 200NAV NTSP	Apr 02	Completed
TSA	Forwarded Proposed NTSP to OPNAV for Approval	Nov 02	Completed
DA	Conduct MSU 200NAV TECHEVAL/SUPEVAL	Nov 02	Completed
TSA	Conduct MSU 200NAV NATEC Training (Operator)	Nov 02	Completed
TSA	Conduct NAMTRAU Training (Operator)	Nov 02	Completed
DA	Award Production Contract	Mar/Apr 03	Pending
TSA	Approve MSU 200NAV NTSP	Mar 03	Completed
PA	Approve ULSS and Deliver to Fleet	Aug 03	Pending
DA	Publish Maintenance Plan (Final)	Nov 03	Pending
TSA	Conduct MSU 200NAV NATEC Training (Maintenance)	Nov 03	Pending
TSA	MSU 200NAV Intermediate Level Maintenance Course RFT	Jun 04	Pending
DA	Attain Material Support Date (MSD)	Nov 05	Pending



PART VI - DECISION ITEMS / ACTION REQUIRED

DECISION ITEM OR ACTION REQUIRED	COMMAND ACTION	DUE DATE	STATUS
No Actions or Decisions pending			



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